

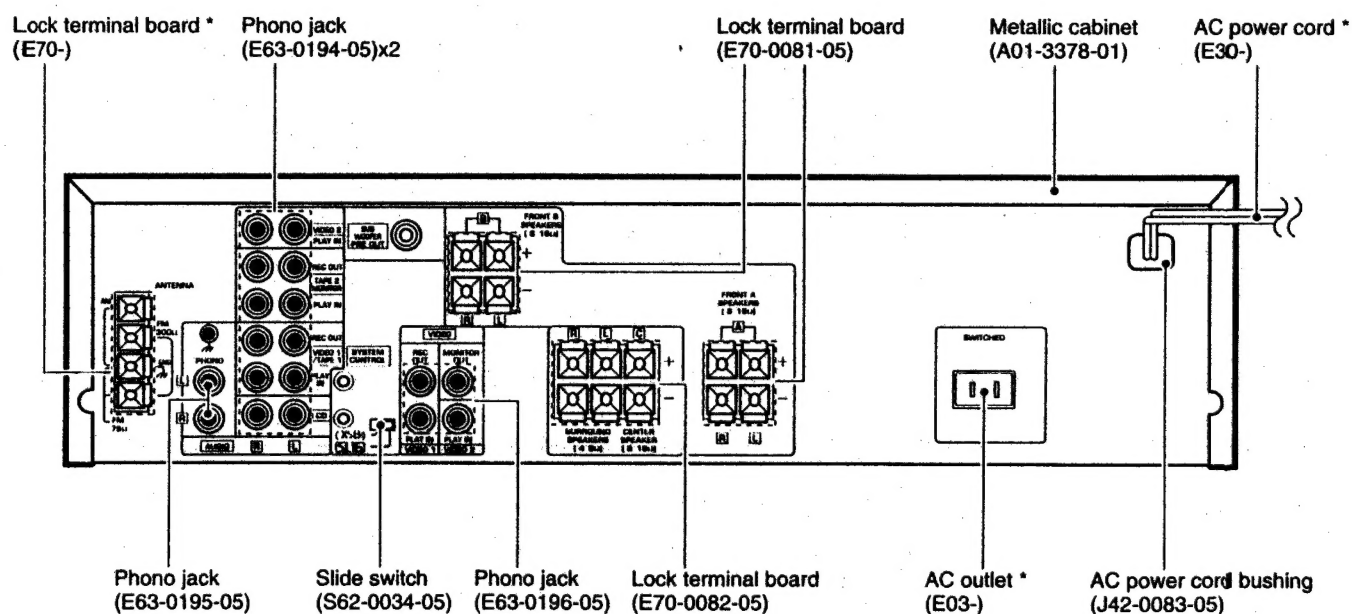
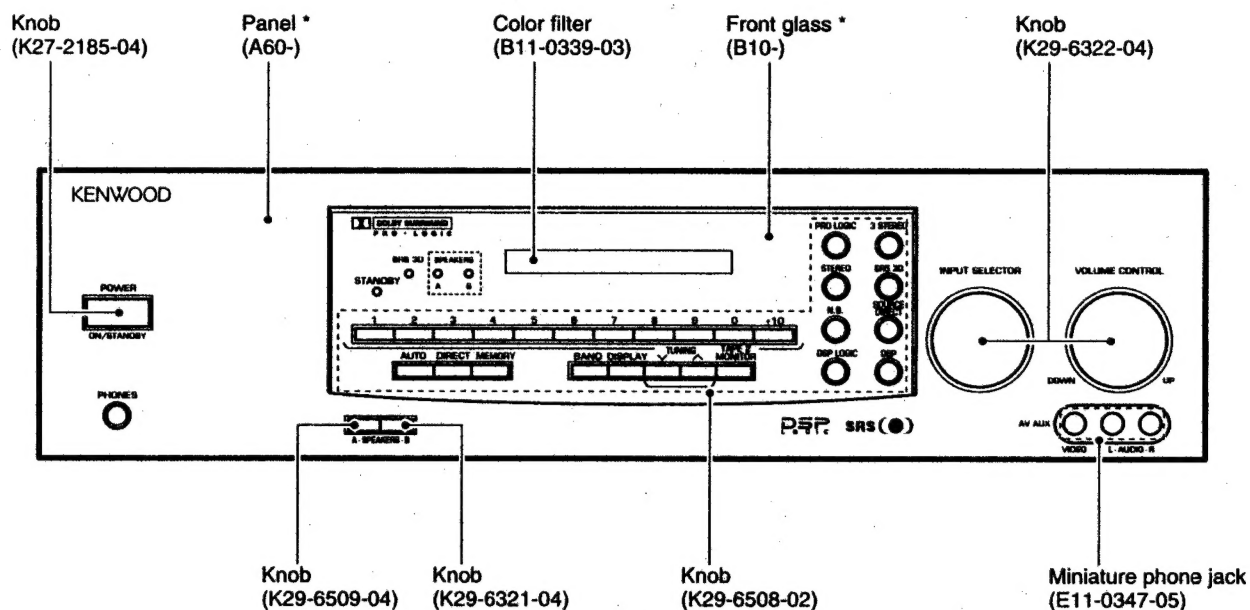
# AUDIO-VIDEO SURROUND RECEIVER

## 106VR/107VR/KR-797/897/V6090/V7090

# SERVICE MANUAL

# KENWOOD

© 1997-01/B51-5268-00 (K/K) 3841



\* Refer to parts list on page 43.

### Note:

Please check your model name and your destination in parts list before parts order.

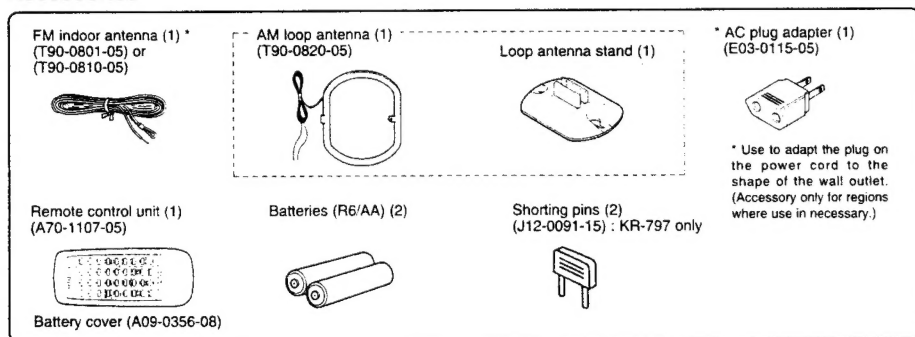
# 106VR/107VR/KR-797/897/V6090/V7090

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### Accessories



\* Refer to parts list

### Instruction manual

#### KR-V6090/106VR

ENGLISH	B60-2983-00	KPY
FRENCH	B60-2984-00	P
FRE/DUT	B60-2985-00	E
ITA/SPA	B60-2986-00	E
GERMAN	B60-2987-00	E
ENGLISH	B60-2988-00	T
SPANISH	B60-2989-00	M
CHINESE	B60-2990-00	V
TAIWAN	B60-2991-00	M
RUSS/POL	B60-2992-00	Q
ENGLISH	B60-3072-00	MX

#### KR-V7090/107VR

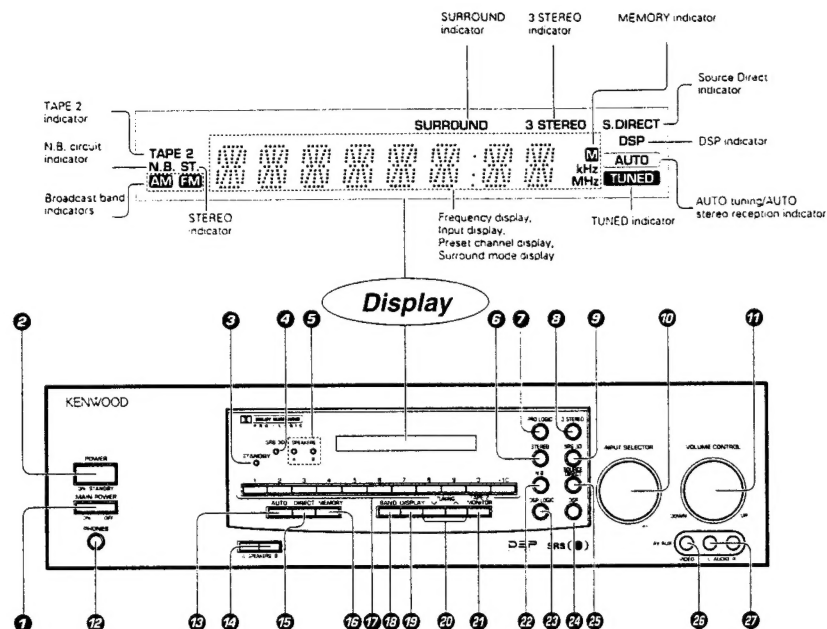
FRENCH	B60-2979-00	P
SPANISH	B60-2980-00	M
CHINESE	B60-2981-00	V
TAIWAN	B60-2982-00	M
ENGLISH	B60-3071-00	MX

#### KR-797/897

ENGLISH	B60-3069-00	PY
FRENCH	B60-3070-00	P

## CONTROLS

## Control and indicators



- ① **MAIN POWER switch**  
Press to switch the main power ON/OFF.
- ② **REMOTE POWER key**  
Press to switch over the STANDBY/ON modes when the MAIN POWER is ON.
- ③ **STANDBY indicator**  
Lights when the SRS 3D system is ON.
- ④ **SRS 3D indicator**  
Lights when the speakers are ON.
- ⑤ **SPEAKERS indicator**  
Lights when the speakers are ON.
- ⑥ **STEREO key**  
Press to turn the surround mode OFF.
- ⑦ **DOLBY PRO LOGIC key**
- ⑧ **DOLBY 3 STEREO key**
- ⑨ **SRS 3D key**
- ⑩ **INPUT SELECTOR knob**  
Rotate to select the input source.
- ⑪ **VOLUME CONTROL knob**
- ⑫ **PHONES jack**  
Plug headphones into this jack.

- ⑬ **AUTO key**  
Press to select the tuning mode from the auto tuning and manual tuning modes.
- ⑭ **SPEAKERS A/B keys**  
Press and hold the AUTO key for more than 2 seconds to switch the VIDEO1 display to another input display.
- ⑮ **DIRECT key**  
Press to select the A and/or B speakers system.
- ⑯ **MEMORY key**  
Press when tuning a broadcast station by entering the digits of its frequencies.
- ⑰ **NUMERIC keys (1 to 0, +10)**
- ⑱ **BAND key**  
Press to switch the broadcasting band.
- ⑲ **DISPLAY key**  
Press to switch the displayed information between the surround mode display and input selector display. Press and hold the DISPLAY key for more than 2 seconds to switch the display brightness.
- ⑳ **TUNING keys (V, A)**  
Press to select a radio station.
- ㉑ **TAPE 2 MONITOR key**  
Press to monitor the sound being recorded, etc.
- ㉒ **N.B. key**  
Press to compensate for the insufficiency in the base sound.
- ㉓ **DSP LOGIC key**
- ㉔ **DSP key**
- ㉕ **SOURCE DIRECT key**  
Press to listen to the source sound with a higher sound quality.
- ㉖ **AV AUX (VIDEO) input terminals**  
Video input terminal.
- ㉗ **AV AUX (AUDIO) input terminals**  
Audio input terminal.

## STANDBY position of the REMOTE POWER key

When the STANDBY indicator of this unit is lit after its power cord has been plugged into wall outlet and the MAIN POWER switch has been pressed to ON, a small amount of current is supplied to back up the internal memory of the unit. This status is referred to as the standby mode of the unit. While the STANDBY indicator is lit, the POWER can be switched between ON and STANDBY from the remote control unit. When the unit is not to be used for a long period of time, press the MAIN POWER key to OFF.

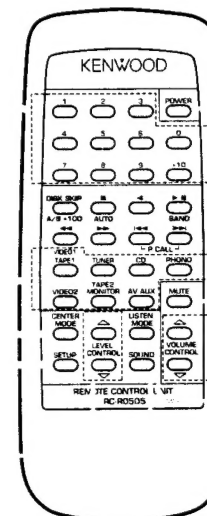
## CONTROLS

## Operation of remote control unit

## Names of keys and their functions

The remote control unit provided with the receiver can also control KENWOOD cassette decks, CD player and MD recorder connected to the receiver through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.

Model: RC-R0505  
Infrared ray system



**Numeric keys**  
Used as the numeric keys of the input source component being selected.

**INPUT keys**  
Press to select the input.

**CENTER MODE key**  
Press to select the center mode in the DOLBY PRO LOGIC surround mode.

**SETUP key**  
Press to set up the balance or surround play.

**LEVEL CONTROL keys**  
Press to adjust the tone or during setup of the surround mode.

**POWER key**  
Press to switch ON/OFF the power of this unit as well as the KENWOOD components connected to it through system control cords.

Refer to the remote control key correspondence table on the next page.

**MUTE key**  
Press to mute sound temporarily.

**VOLUME CONTROL keys**  
Press to adjust the volume.

**LISTEN MODE key**  
Press to select the type of the surround mode.

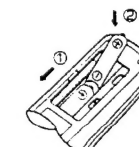
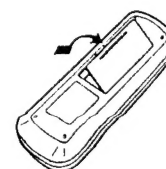
**SOUND key**  
Press to adjust the tone.

## Loading batteries

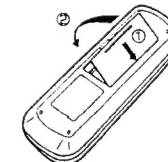
① Remove the cover.

② Insert batteries.

③ Close the cover.



Insert two AA-size (R6 / SUM-3) batteries as indicated by the polarity marking.

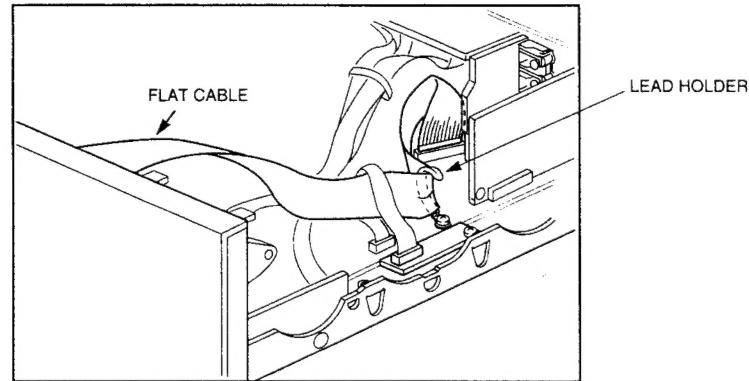


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## DISASSEMBLY FOR REPAIR

### ※ CAUTION FOR REPAIR

Keep a flat cable away from heatsink for safety, and tie it with the lead holder as illustration if disassembled for repair.



106VR/107VR/KR-797/897/V6090/V7090

## CIRCUIT DESCRIPTION

### 1. INITIAL STATE

#### (1) AMP-related block

• POWER ON STAND BY	POWER OFF
• AUDIO SELECTOR	TUNER
• VIDEO SELECTOR	VIDEO 1
• VIDEO OUT SOURCE	VIDEO 1
• SPEAKER A	ON
• SPEAKER B	OFF
• TAPE 2 MONITOR	OFF
• SOURCE DIRECT	OFF
• SOUND ADJUST MODE	BASS
• BASS	0 STEP
• MID	0 STEP
• TREBLE	0 STEP
• SRS 3D	OFF
• SRS CENTER	
• VOLUME	7 step
• N. B. CIRCUIT	OFF

#### (2) SURROUND-related block

• SURROUND MODE	STEREO (SURROUND OFF)
• DSP MODE	ARENA
• DSP LOGIC MODE	LARGE
• CENTER MODE	NORMAL
• SET UP MODE	OFF
• DISTANCE	
DSP/DSP LOGIC	30ms
DOLBY PRO LOGIC	20ms
• BALANCE	CENTER
• CENTER LEVEL	0 STEP
• REAR LEVEL	0 STEP
• SUB WOOFER	0 STEP(SUB WOOFER OFF)

#### (3) Tune-related block

• BAND	FM
• FREQUENCY	87.5MHz(K/E/Q TYPE)
• P.CH DISPLAY	--CH
• RDS MEMORY	NO DATA
• POLAR/PILOT(Q TYPE)	POLAR

### (4) TEST PRESET FREQUENCY

Channel	BAND	K1 TYPE	BAND	K2 TYPE	BAND	E1/E3 TYPE	BAND	Q TYPE
01ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
02ch	FM	97.50MHz	FM	97.50MHz	FM	97.50MHz	FM	98.00MHz
03ch	FM	108.00MHz	FM	108.00MHz	FM	108.00MHz	FM	108.00MHz
04ch	AM	630kHz	AM	630kHz	AM	630kHz	AM	630kHz
05ch	AM	1000kHz	AM	1000kHz	AM	999kHz	AM	999kHz
06ch	AM	1440kHz	AM	1440kHz	AM	1440kHz	AM	1440kHz
07ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FML	74.00MHz
08ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FML	65.00MHz
09ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FML	69.00MHz
10ch	FM	89.10MHz	FM	89.10MHz	FM	89.10MHz	FM	89.10MHz
11ch	FM	90.00MHz	FM	90.00MHz	FM	90.00MHz	FM	90.00MHz
12ch	FM	98.00MHz	FM	98.00MHz	FM	98.00MHz	FM	97.50MHz
13ch	FM	98.50MHz	FM	98.50MHz	FM	98.50MHz	FM	98.50MHz
14ch	FM	106.00MHz	FM	106.00MHz	FM	106.00MHz	FM	106.00MHz
15ch	AM	530kHz	AM	530kHz	AM	531kHz	AM	531kHz
16ch	AM	990kHz	AM	990kHz	AM	990kHz	AM	990kHz
17ch	AM	1700kHz	AM	1610kHz	AM	1602kHz	AM	1602kHz
18ch	FM	87.50 MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
19ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
20ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz

The initial setting is performed in a following event :

1. When backup memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall outlet while pressing the POWER key.



## CIRCUIT DESCRIPTION

## 2. BACK UP.

For the operation outline and backup state setting, refer to KR-V7080/V8080 service manual (B51-5162-00).

## (1) Contents of back up data to be held.

---- AMP ----

- POWER STANDBY ON/OFF
- SELECTOR SOURCE
- VIDEO 1 SELECTOR SOURCE
- VIDEO OUT SOURCE
- TAPE2 MONITOR ON/OFF
- SPEAKER A RELAY ON/OFF
- SPEAKER B RELAY ON/OFF
- VOLUME LEVEL VALUE
- SOUND ADJUST MODE
- BASS LEVEL
- MID LEVEL
- TREBLE LEVEL
- SRS 3D ON/OFF
- SRS CENTER LEVER
- SRS SPACE LEVEL

- SOURCE DIRECT ON/OFF
- N.B. CIRCUIT ON/OFF
- SURROUND ----

- SURROUND MODE
- DSP MODE
- DSP LOGIC MODE
- CENTER MODE
- DISTANCE
- BALANCE LEVEL
- CENTER LEVEL
- REAR LEVEL
- SUB WOOFER LEVEL

---- TUNER ----

- BAND
- RECEIVING STATION FREQUENCY data
- PRESET MEMORY data
- RDS MEMORY
- POLAR/PILOT

## 3. DESTINATION LIST OF TUNER

Table 3-1 Destination List of Tuner

Destination	BAND	Receive frequency range	channel space	1F	PLL reference frequency	Destination DSW(X09-)		
						DSW2 D114	DSW1 D113	DSW0 D112
K1 (1700)	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz			
K2 (1610)	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz			
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
E3 (RDS)	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
Q(RDS)	FML	65.0MHz~74.0MHz	10kHz	+10.7MHz	5kHz	1	1	1
	FMH	87.5MHz~108MHz	50kHz	+10.7MHz	5kHz			
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
M	K2/E1 changes by only setting "DSW1". (DSW 1=0 : K2 Type, 1 : E1 Type)					0	X	1

DIODE SW(DSWX) : 0 = Without DIODE (When static, input LOW)

1 = With DIODE (When static, input HIGH)

X = TRANSISTOR SW (0 = OFF 1=ON)

## 4. DESTINATION AND MODEL LIST

MODEL	FUNCTION DSP/DSP LOGIC	FRONT AUX	SPEAKER B	MODEL SELECTION SW	
				DSW3 (DI22)	DSW4 (DI23)
KR-V7090	0	0	0	0	1
KR-V6090	X	X	X	1	0
KR-V5090	X	X	X	0	0

## CIRCUIT DESCRIPTION

## 5. KEY MATRIX

[ ( ) :  $\mu$ -Com IC port ] X09 IC21

KSCN	KRTN	KR0(14)	KR1(15)	KR2(16)	KR3(17)	KR4(18)
KS1 (54)	SP.A	STEREO/MONO	*1 SP.B	—	—	—
KS2 (53)	—	3 (10 KEY)	POWER ON/ST	1 (10KEY)	2 (10 KEY)	—
KS3(52)	+10	TAPE2	T.DOWN	*RTY	*TA/NEWS INFO.	—
KS4(51)	DSP/P.UP	S.DIRECT	N.B	DSP L./P.KOWN	9 (10 KEY)	—
KS5(50)	0 (10 KEY)	T.UP	DISPLAY	BAND	7 (10 KEY)	—
KS6(49)	6 (10 KEY)	4 (10 KEY)	5 (10 KEY)	DIRECT	MEMORY	—
KS7(48)	3 ST	SRS 3D	STEREO	PRO LOGIC	8 (10 KEY)	—
KS8(47)	DSW0 (D123)	DSW1 (D122)	DSW2 (D114)	DSW3 (D113)	DSW4 (D112)	—

\* 1 KR-V7090 ONLY

\* 2, 3 E3/Q TYPE (RDS) ONLY

## 6. TEST MODE

For the TEST MODE of main unit and SERIAL TEST MODE, refer to service manual (B51-5162-00) of KR-V7080/V8080. The only change point is as follows.

## (1) One touch setting's for Audio Level and Surround Level items.

The variation of Audio Level and Surround Level items can be set with respective keys and, if the selector is on something other than TUNER, direct settings can be made with the number keys.

KEY	MODEL	KR-V7080/V8080	105VR/106VR/107VR KR-797/897/XX90SERIES
	FUNCTION		
KEY [ 4 ]		BALANCE	BALANCE ↔ SUB WOOFER LEVEL
KEY [ 5 ]		BASS	BASS → MIDDLE → TREBLE
KEY [ 6 ]		TREBLE	REAR LEVEL
KEY [ 7 ]		SUB WOOFER	CENTER LEVEL
KEY [ 8 ]		REAR LEVEL	DELAY TIME
KEY [ 9 ]		CENTER LEVEL	SRS CENTER ↔ SPACE
KEY [ 0 ]		DELAY TIME	MULTI CONTROL UP
KEY [ +10 ]		EFFECT LEVEL	MULTI CONTROL DOWN

106VR/107VR/KR-797/897/V6090/V7090

## CIRCUIT DESCRIPTION

### (2) SERIAL TEST CODE LIST (C2XXH)

TYPE FUNC	AMP								TUNER							
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	POWER OFF	CD DIRECT OFF	SP B OFF	DUAL SOUND LEVEL1	NB OFF	TV/SAT (TV/CABLE) (INPUT)	INPUT LEVEL MIN	CENTER SP ON	POWER OFF	0	MEMORY (ENTER)					
1	POWER ON	CD DIRECT ON	SP B ON	DUAL SOUND LEVEL2	OMNI SP ON	FRONT SP ON	INPUT LEVEL MID	CENTER SP OFF	POWER ON	1	MAIN					
2	PHONO	CD REC OFF	HIT MASTER OFF	DUAL SOUND LEVEL3	MUTING (-30dB) OFF	FRONT SP OFF	INPUT LEVEL MAX	MD MONITOR ON	MUTE OFF	2	SUB					
3	CD	CD REC ON	HIT MASTER ON	DUAL SOUND INPUT CD	MUTING (-30dB) ON	C/S SP ON	DIMMER OFF	MD MONITOR OFF 1	MUTE ON	3	BOTH					
4	TUNER	SOURCE DIRECT OFF	MOTOR VOL UP	DUAL SOUND INPUT TUNER	NB LEVEL1	C/S SP OFF	DIMMER 1	REC MODE ON	AUTO STEREO	4	AF					
5	TAPE (TAPE A)	SOURCE DIRECT ON	MOTOR VOL DOWN	DUAL SOUND INPUT TAPE	NB LEVEL2	C/S MUTE ON	DIMMER 2	REC MODE OFF	MONO	5	PTY					
6	TAPE2 (TAPE B)	LINE STRAIGHT OFF	MOTOR VOL STOP	DUAL SOUND INPUT MD/DAT	NB LEVEL3	VIDEO5	IR REPEATER TEST	REC OUT OFF POSITION	TUNED OFF	6	DISPLAY					
7	AUX	SINE STRAIGHT ON	DBS/TV	DUAL SOUND INPUT VIDEO	BALANCE Lch MAX	MENU	MD (INPUT)		TUNED ON	7	ANTENNA A					
8	DAT	LOUDNESS OFF	TAPE2 MONITOR OFF	DUAL SOUND INPUT AV/AUX	BALANCE Rch CENTER	TOPE CONTROL OFF	TV (INPUT)		ACTIVE RECEPTION OFF	8	ANTENNA B					
9	VIDEO1 (VIDEO)	LOUDNESS ON	TAPE2 MONITOR ON	BGM OFF	BALANCE Lch MAX	TOPE CONTROL ON	CABLE/Sat (INPUT)	FL ALL OFF OFF	ACTIVE RECEPTION ON	9	PS DISPLAY					FL ALL OFF OFF
A	VIDEO2	SUB SONIC OFF	VIDEO MUTE ON	BGM ON	L A C MAIN MAX	BASS MIN	SUB MUTE ON	FL ALL OFF ON	RF DIRECT (ATT ON)	+10	SIGNAL LEVEL DISP OFF					FL ALL OFF ON
B	VIDEO3	SUB SONIC ON	LAC VOL UP	FAN OFF	L A C MAIN/SUB CENTER	BASS MID	REC MUTE ON	ALL ON OFF	RS DISTANCE (ATT OFF)	BAND FM	SIGNAL LEVEL DISP ON					ALL ON OFF
C	VIDEO4 (VDP)	SUPER WOOFER OFF	LAC VOL DOWN	FAN ON	L A C SUB MIN	BASS MIX	BASS DOWN	ALL ON ON	IF WIDE	BAND AM/MW	TUNER DIRECT					ALL ON ON
D	MUTE ON (MAIN)	SUPER WOOFER ON	LAC VOL STOP	FAN SPEED LOW	FAN STOP LOW	TREBLE MIN	BASS UP	AMP INITIAL	IF NORMAL	BAND TV/LW						TUNER INITIAL
E	SEL MUTE ON	SPEAKER A OFF (FRONT)	DUAL SOUND OFF	FAN SPEED HIGH	FAN STOP HIGH	TREBLE MID	TREBLE DOWN	AMP SERIAL TEST OFF	IF NARROW	DOWN						TUNER SERIAL TEST OFF
F	MUTE ALL OFF	SPEAKER A ON (FRONT)	DUAL SOUND ON	NB ON	LD (INPUT)	TREBLE MAX	TREBLE UP	AMP SERIAL TEST ON	DIRECT	UP						TUNER SERIAL TEST ON

■ : Sending code □ : Receiving code

### (C3XXH)

TYPE FUNC	SURROUND								GE							
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	POWER OFF	REAR MUTE ON	ASFC MAX	ACOUSTIC BGM	PRESENCE GAME	ECHO 2	SUB WOOFER LEVEL MIN	MIDNIGHT OFF	POWER OFF	EQ JAZZ						
1	POWER ON	MUTE ALL OFF	SEAT POS MIN	CINEMA SCREEN OFF	PRESENCE KARAOKE	PRESENCE HIT MASTER	SUB WOOFER LEVEL MID	MIDNIGHT 1	POWER ON	EQ FUSION						
2	STEREO BYPASS/OFF	CENTER LEVEL MIN	SEAT POS MID	CINEMA SCREEN 1	F 2ch	THX	SUB WOOFER LEVEL MAX	MIDNIGHT 2	MUTE OFF	EQ MOVIE						
3	DOLBY SURROUND NORMAL/WID	CENTER LEVEL MID	SEAT POS MAX	CINEMA SCREEN 2	DOLBY SURROUND (PHANTOM)	MONO	3D STEREO ON	MIDNIGHT 3	MUTE ON							
4	DOLBY 3 STEREO	CENTER LEVEL MAX	WALL MIN	CINEMA SCREEN 3	DEPTH OFF	INPUT LEVEL MIN	3D STEREO OFF	AC-3 ON	EQ OFF							
5	DSP	REAR R LEVEL MIN	WALL MID	CH MODE 2ch	DEPTH ON	INPUT LEVEL MID	3D STEREO LEVEL 1	SURROUND AUTO	EQ ON							
6	DSP LOGIC	REAR R LEVEL MID	WALL MAX	CH MODE 3ch	DEPTH MODE VOCAL	INPUT LEVEL MAX	3D STEREO LEVEL 2		M1 (ALL CEN)							
7	S 4ch	REAR R LEVEL MAX	HXXM SIZE MIN	CH MODE 4ch	DEPTH MODE INSTRUMENT	FRONT L LEVEL MIN	3D STEREO LEVEL 3		M2 (ALL MAX)							
8	F 4ch	DELAY TIME MIN	ROOM SIZE MID	CH MODE 5ch	DEPTH LEVEL MIN	FRONT L LEVEL MID	3D STEREO LEVEL 4		M3 (ALL MIN)							
9	CENTER MODE NORMAL	DELAY TIME MID	ROOM SIZE MAX	DSP THROUGH	DEPTH LEVEL MID	FRONT L LEVEL MAX	3D STEREO LEVEL 5	FL ALL OFF OFF	EEPROM TEST							FL ALL OFF OFF
A	CENTER MODE WIDE	DELAY TIME MAX	STEREO (KARAOKE)	DSP ARENA	DEPTH LEVEL MAX	FRONT R LEVEL MIN	KEYCON 1	FL ALL OFF ON	EEPROM TEST OK							FL ALL OFF ON
B	CENTER MODE PHANTOM	(PRESENCE) EFFECT LEVEL MIN	MULTI (KARAOKE)	DSP JAZZ CLUB	SUB(OMNI) MUTE ON	FRONT R LEVEL MID	KEYCON 4	ALL ON OFF	EEPROM TEST NG							ALL ON OFF
C	TEST TONE OFF	(PRESENCE) EFFECT LEVEL MID	HIFI MULTI (KARAOKE)	DSP STADIUM	DSP LOGIC LARGE	FRONT R LEVEL MAX	KEYCON 8	ALL ON ON	LINE ON							ALL ON ON
D	TEST TONE ON	(PRESENCE) EFFECT LEVEL MAX	NORMAL (KARAOKE)	PRESENCE DISCO THEQUE	DSP LOGIC SMALL	REAR L LEVEL MIN	MATRIX SURROUND OFF	SURROUND INITIAL	TAPE ON							GE INITIAL
E	FRONT MUTE ON	ASFC MIN	ACOUSTIC NON DRE1	PRESENCE CHURCH	ECHO OFF	REAR L LEVEL MID	MATRIX SURROUND ON	SURROUND SERIAL TEST OFF	EQ POP							GE SERIAL TEST OFF
F	CENTER MUTE ON	ASFC MID	ACOUSTIC NON DRE2	PRESENCE MOVIE	ECHO 1	REAR L LEVEL MAX	KEYCON OFF	SURROUND SERIAL TEST ON	EQ ROCK							GE SERIAL TEST ON

■ : Sending code □ : Receiving code

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

(C4XXH)

H L	VOLUME LEVEL															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	VOLUME 0	VOLUME 16	VOLUME 32	VOLUME 48	VOLUME 64	VOLUME 80										
1	VOLUME 1	VOLUME 17	VOLUME 33	VOLUME 49	VOLUME 65	VOLUME 81										
2	VOLUME 2	VOLUME 18	VOLUME 34	VOLUME 50	VOLUME 66	VOLUME 82										
3	VOLUME 3	VOLUME 19	VOLUME 35	VOLUME 51	VOLUME 67	VOLUME 83										
4	VOLUME 4	VOLUME 20	VOLUME 36	VOLUME 52	VOLUME 68	VOLUME 84										
5	VOLUME 5	VOLUME 21	VOLUME 37	VOLUME 53	VOLUME 69	VOLUME 85										
6	VOLUME 6	VOLUME 22	VOLUME 38	VOLUME 54	VOLUME 70	VOLUME 86										
7	VOLUME 7	VOLUME 23	VOLUME 39	VOLUME 55	VOLUME 71	VOLUME 87										
8	VOLUME 8	VOLUME 24	VOLUME 40	VOLUME 56	VOLUME 72	VOLUME 88										
9	VOLUME 9	VOLUME 25	VOLUME 41	VOLUME 57	VOLUME 73	VOLUME 89										
A	VOLUME 10	VOLUME 26	VOLUME 42	VOLUME 58	VOLUME 74	VOLUME 90										
B	VOLUME 11	VOLUME 27	VOLUME 43	VOLUME 59	VOLUME 75	VOLUME 91										
C	VOLUME 12	VOLUME 28	VOLUME 44	VOLUME 60	VOLUME 76	VOLUME 92										
D	VOLUME 13	VOLUME 29	VOLUME 45	VOLUME 61	VOLUME 77	VOLUME 93										
E	VOLUME 14	VOLUME 30	VOLUME 46	VOLUME 62	VOLUME 78	VOLUME 94										
F	VOLUME 15	VOLUME 31	VOLUME 47	VOLUME 63	VOLUME 79	VOLUME 95										

☒ : Sending code

☐ : Receiving code

(C5XXH)

H L	VOLUME LEVEL															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	RF RECEIVE CHANNEL SET	MIDDLE MIN														
1	RF TRANSMIT CHANNEL SET	MIDDLE MID														
2	RF TRANSMIT MODULATION	MIDDLE MAX														
3	TRANSMIT NON MODULATION	SRS CENTER MIN														
4	RF BIDIRECTIONAL COM ON	SRS CENTER MID														
5	RF BIDIRECTIONAL COM OFF	SRS CENTER MAX														
6	CONFIGURATION 1	SRS SPACE MIN														
7	CONFIGURATION 2	SRS SPACE MID														
8	CONFIGURATION 3	SRS SPACE MAX														
9	INPUT TYPE AUTO															
A	INPUT TYPE RF															
B	INPUT TYPE DIGITAL OPT															
C	INPUT TYPE DIGITAL COAX															
D	INPUT TYPE ANALOG															
E																
F																

☒ : Sending code

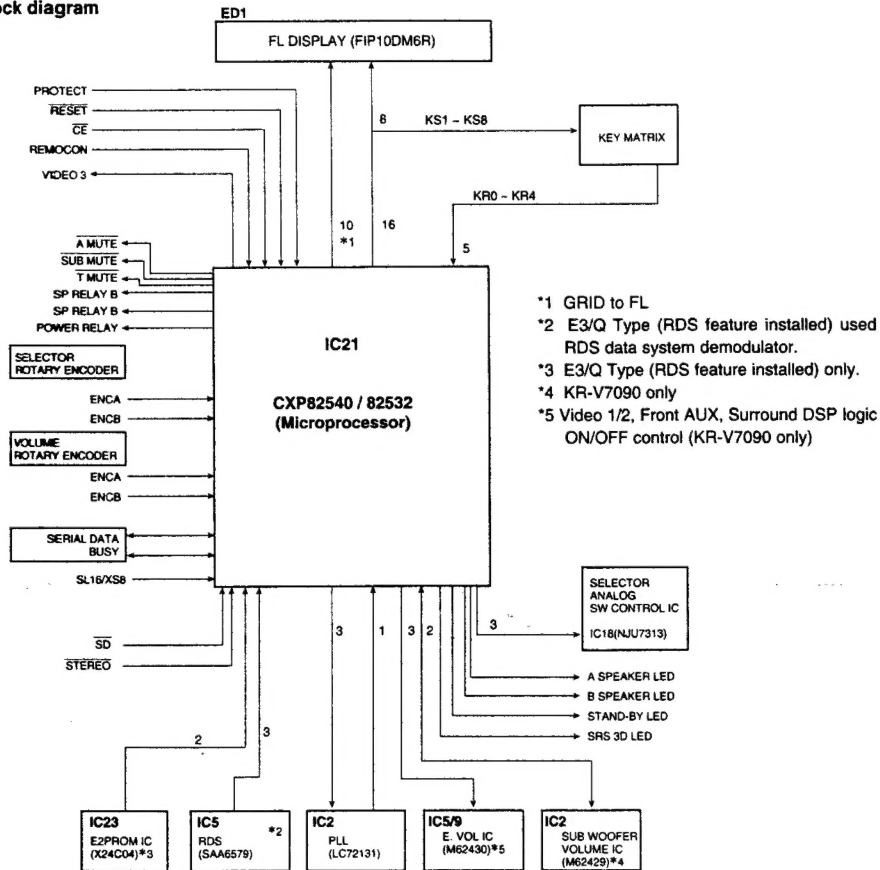
☐ : Receiving code

# 106VR/107VR/KR-797/897/V6090/V7090

## CIRCUIT DESCRIPTION

### 7. Microprocessor : CXP82540/82532 (X09 : IC21)

#### Block diagram



MODEL	UNIT NO	DESTINATION	MICROPROCESSOR
106VR	X09-4510-10	K/P	CXP82532-151Q
106VR	X09-4510-21	Y	CXP82532-151Q
KR-V6090	X09-4510-71	X	CXP82532-151Q
KR-V6090	X09-4512-71	T/E	CXP82540-152Q
107VR	X09-4510-11	K/P	CXP82532-151Q
107VR/KR-V7090	X09-4510-22	Y/M/V	CXP82532-151Q
KR-V7090	X09-4510-72	X	CXP82532-151Q
KR-797	X09-4510-12	K/P	CXP82532-151Q
KR-897	X09-4510-13	K/P	CXP82532-151Q
KR-797	X09-4512-91	Y	CXP82532-151Q
KR-V6090	X09-4519-81	Q	CXP82540-152Q
105VR	X09-4520-10	K/P	CXP82532-151Q
105VR/KR-V5090	X09-4520-21	Y/M/V	CXP82532-151Q
KR-V5090	X09-4520-71	X	CXP82532-151Q
KR-V5090	X09-4522-71	T/E	CXP82540-152Q
KR-V5090	X09-4523-81	Q	CXP82540-152Q

# 106VR/107VR/KR-797/897/V6090/V7090

## CIRCUIT DESCRIPTION

### 7-1. Pin function

Pin No.	Pin name	I/O	Description	Active
1	PLL DO	I	IF count data	—
2	REMOTE	I	Remote control input	—
3	SYSTEM SW	I	Serial SL16/XS8 Selection	—
4-6	NC	—		—
7	SUR ST.	O	Surround IC strobe (LA2786/LV1016)	H
8	VR/SURROUND CK	O	M62430/LA2786/LV1016(Volume/surround) clock	L
9	VR ST	O	M62430(volume)strobe	L
10	VR/SURROUND DATA	O	M62430/LA2786/LV1016(Volume/surround) data	L
11	SEL/PLL CK	O	NJU7312/LC72131(selector/PLL)clock	L
12	SEL ST	O	Selector IC strobe (NJU7312)	L
13	SEL/PLL DATA	O	NJU7312/LC72131(Selector/PLL)data	L
14	KR0	I	Key return 0	H : KEY ON
15	KR1	I	Key return 1	H : KEY ON
16	KR2	I	Key return 2	H : KEY ON
17	KR3	I	Key return 3	H : KEY ON
18	KR4	I	Key return 4	H : KEY ON
19	POLAR/PILOT	O	Tuner polar/pilot selection signal	H : POLAR L : PILOT
20	S.BUSY	I/O	8/16 bit system busy	H : BUSY L : READY
21	S.DATA	I/O	8/16 bit system data	—
*22	S.LEVEL(RDS)	I	Signal level	—
23	STEREO	I	Stereo signal detection	L : STEREO ON
24	SD	I	Synchronized signal detection	L : SD ON
*25	E2PCK	O	E2Prom clock signal	—
*26	E2P DATA	I/O	E2Prom data signal	—
27	SW CK	O	M62429(sub woofer) clock	H
28	SW DA	O	M62429(sub woofer) data	H
29	CE	I	AC OFF(MAIN POWER) detection Signal	L : AC OFF
30	RESET	I	Microprocessor reset	L : RESET ON
31	EXTAL	I	4.19MHz oscillation	—
32	XTAL	O	4.19MHz oscillation	—
33	Vss	—	GND	—
34	PLL CE	O	PLL strobe	L : CE
35	AMUTE	O	Audio mute signal output	H : OFF L : ON
36	POWER	O	Power relay control	H : ON L : OFF
37	VIDEO3	O	Video3 (front Aux) ON/OFF output	H : ON L : OFF
38	BCLASS	O	A high efficiency amp ON/OFF control	H : OFF L : ON
39	TMUTE	O	Tuner mute control	L : MUTE ON
40	SUB MUTE	O	Sub mute signal output	H : OFF L : ON
41	SP.B	O	Speaker B relay control	H : ON L : OFF
42	SP.A	O	Speaker A relay control	H : ON L : OFF
43	SRS	O	SRS 3D LED control output	H : ON L : OFF
44	STAND BY	O	Stand by LED control output	H : ON L : OFF
45	S1	O	FL Segment 1	H : ON
46	S2	O	FL Segment 2	H : ON
47	S3/KS8	O	FL Segment 3/Key scan8	H : ON
48	S4/KS7	O	FL Segment 4/Key scan7	H : ON
49	S5/KS6	O	FL Segment 5/Key scan6	H : ON
50	S6/KS5	O	FL Segment 6/Key scan5	H : ON

# 106VR/107VR/KR-797/897/V6090/V7090

## CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Description	Active
51	S7/KS4	O	FL Segment 7/Key scan4	H : ON
52	S8/KS3	O	FL Segment 8/Key scan3	H : ON
53	S9/KS2	O	FL Segment 9/Key scan2	H : ON
54	S10/KS1	O	FL Segment 10/Key scan1	H : ON
55	S11	O	FL Segment 11	H : ON
56	S12	O	FL Segment 12	H : ON
57	S13	O	FL Segment 13	H : ON
58	S14	O	FL Segment 14	H : ON
59	S15	O	FL Segment 15	H : ON
60	S16	O	FL Segment 16	H : ON
61	10G	O	FL grid 10	—
62	9G	O	FL grid 9	—
63	8G	O	FL grid 8	—
64	7G	O	FL grid 7	—
65	6G	O	FL grid 6	—
66	5G	O	FL grid 5	—
67	4G	O	FL grid 4	—
68	3G	O	FL grid 3	—
69	2G	O	FL grid 2	—
70	1G	O	FL grid 1	—
71	VFDP	—	FL drive power supply (-30V)	—
72	VDD	—	Microprocessor power supply (+5V)	—
73	NC	—	Microprocessor power supply (+5V)	—
74	VOL A	I	Volume encoder input A	—
75	VOL B	I	Volume encoder input B	—
76	SEL A	I	Selector encoder input A	—
77	SEL B	I	Selector encoder input B	—
* 78	RDS CK	I	RDS clock	—
* 79	RDS DATA	I	RDS data	—
80	PROTECT	I	Protection signal input	H : PROTECTION ON

\* E/T/Q type only, other types unused.

The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50kHz cannot be performed.

# 106VR/107VR/KR-797/897/V6090/V7090

## ADJUSTMENT

### FM SECTION INPUT SELECTOR : FM MODE

X05-470X-XX

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISCRIMINATOR	(A) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±75 kHz DEV (OTHER TYPE)	Connect a DC voltmeter between pin 1 and pin2 of CN2.	MONO 98.0 MHz	L31  L32 (EXCEPT K/P)	0V  Minimum distortion.	(a)
2	DISTORTION (STEREO)	(B) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±67.5 kHz DEV PILOT ±7.5 kHz DEV OTHER TYPE	(E)	AUTO 98.0 MHz	T 1 (A1)	Minimum distortion.	(a)

X05-4690-XX

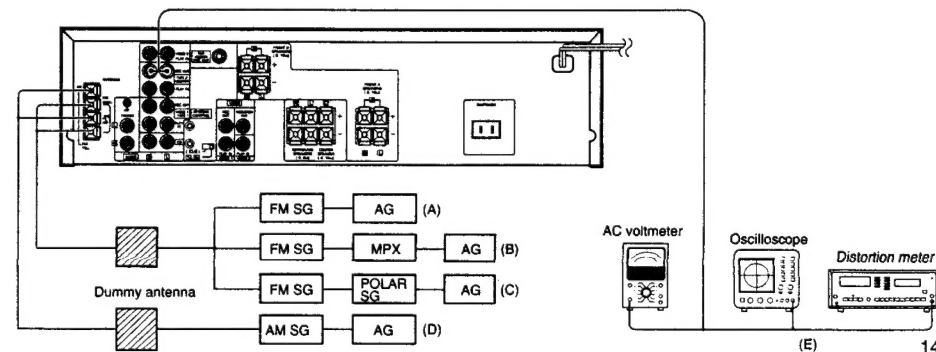
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISTORTION (STEREO)	(B) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV PILOT: ±7.5 kHz DEV	(E)	AUTO 98.0 MHz	T1 (A1)	Minimum distortion.	(a)

### POLAR UNIT

X04-1313-xx Q TYPE (65MHz-74MHz BAND)

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	VCO	(C) 69 MHz, 60 dBμ (ANT INPUT) 1 kHz, 0 kHz DEV SUB, 0 kHz DEV	Connect a frequency counter to VCO monitor (CN2).	AUTO 69 MHz	VR 2	Adjust it the frequency counter reads 31.25 kHz ±100 kHz.	
2	SEPARATION	(C) 69 MHz, 60 dBμ (ANT INPUT) 1 kHz, 40 kHz DEV SUB, 10 kHz DEV Select : L or R	Connect a oscilloscope to TUNER OUT(CN6).	AUTO 69 MHz	TC 1	Minimum crosstalk.	
3	SEPARATION	(C) SAME AS ABOVE	Connect a oscilloscope to TUNER OUT(CN6).	AUTO 69 MHz	VR 1	Minimum crosstalk.	

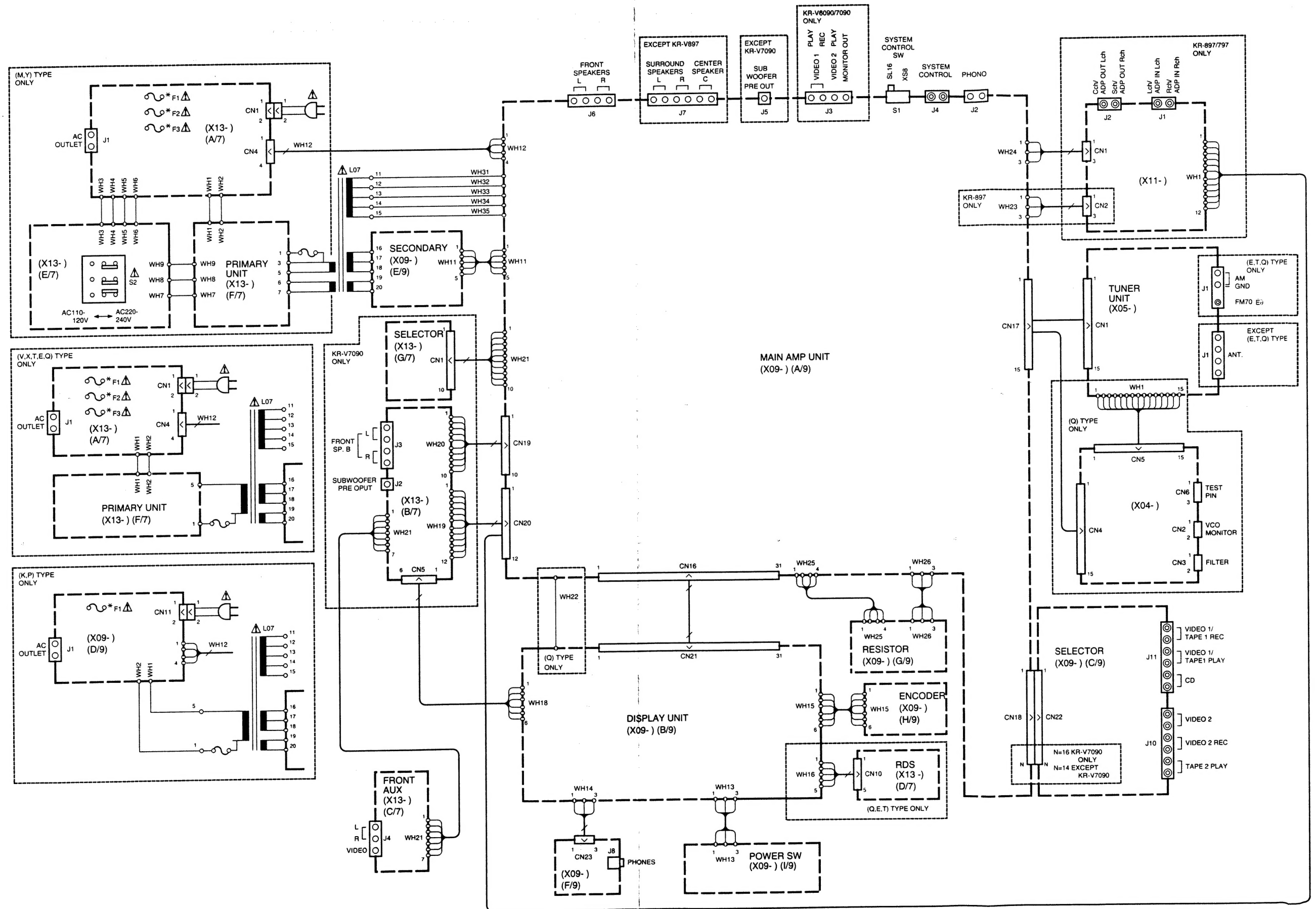
### INSTRUMENTS CONNECTION



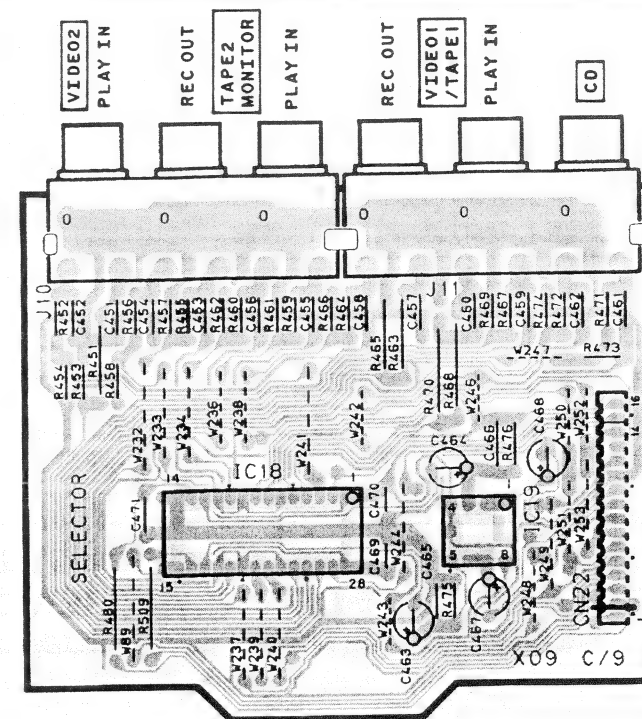
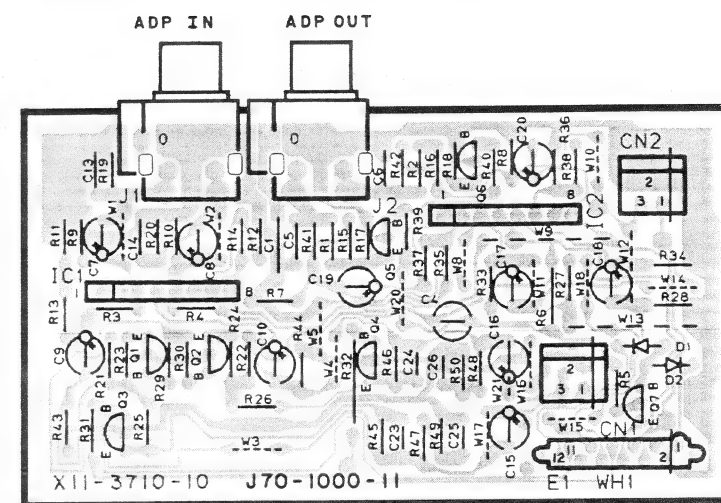
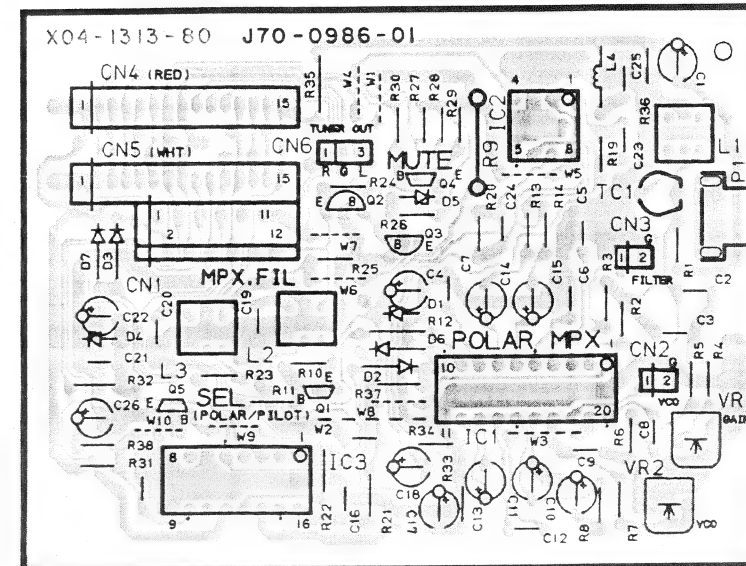
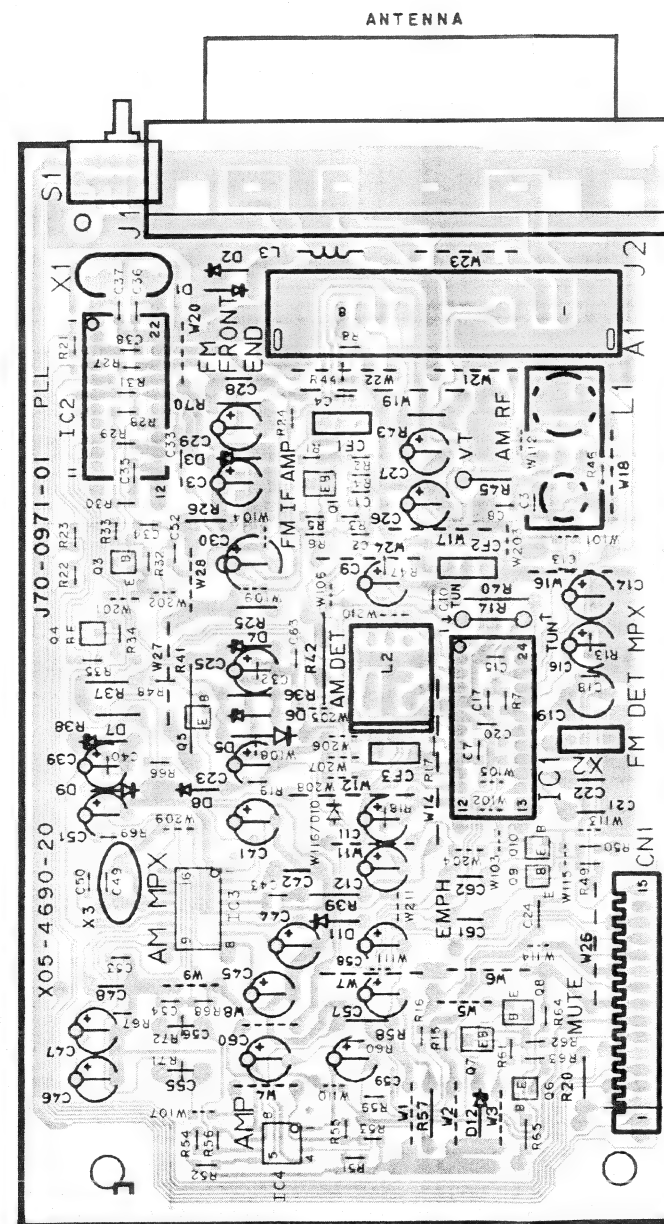
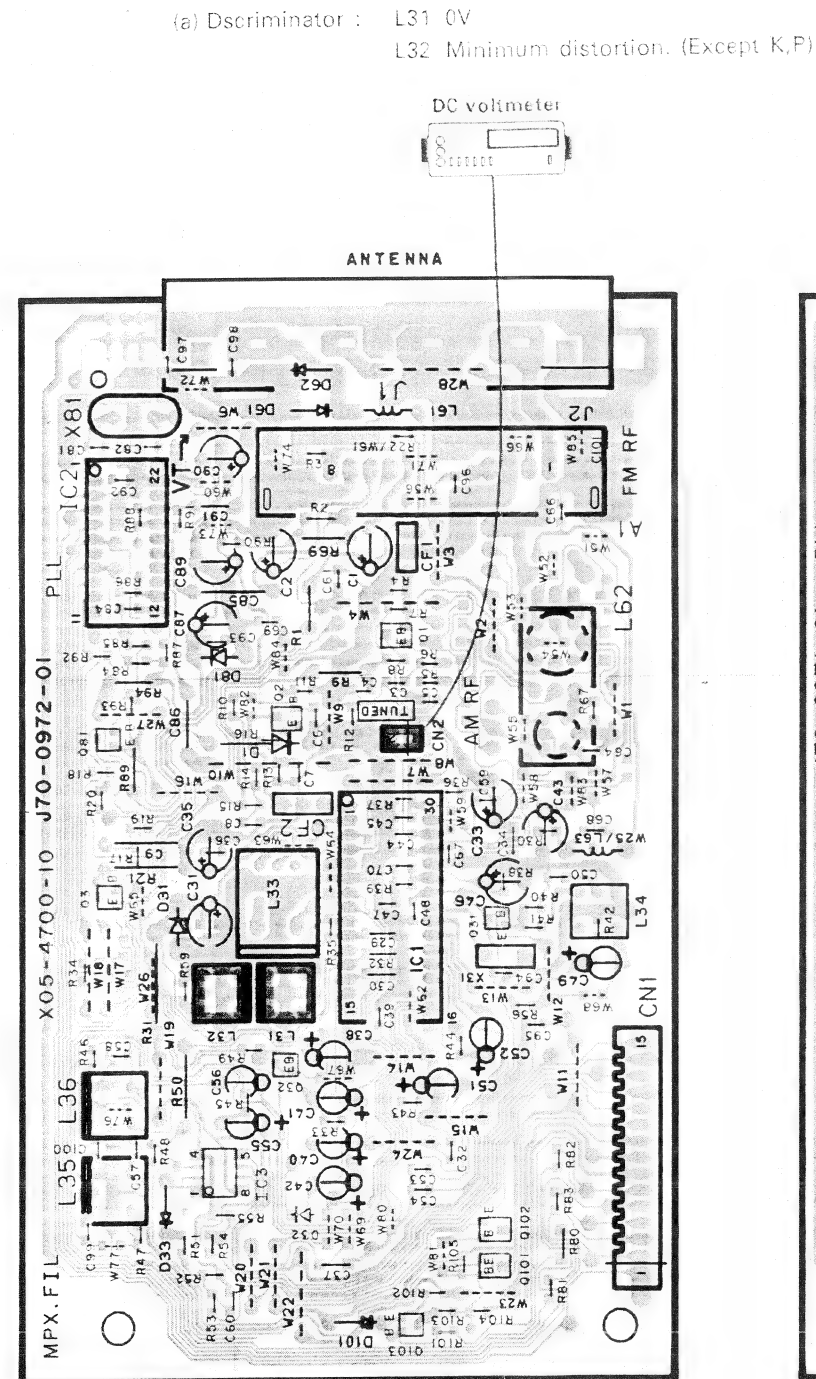


# 106VR/107VR/KR-797/897/V6090/V7090 106VR/107VR/KR-797/897/V6090/V7090

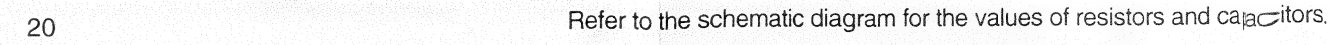
## WIRING DIAGRAM



Refer to the schematic diagram for the values of resistors and capacitors.

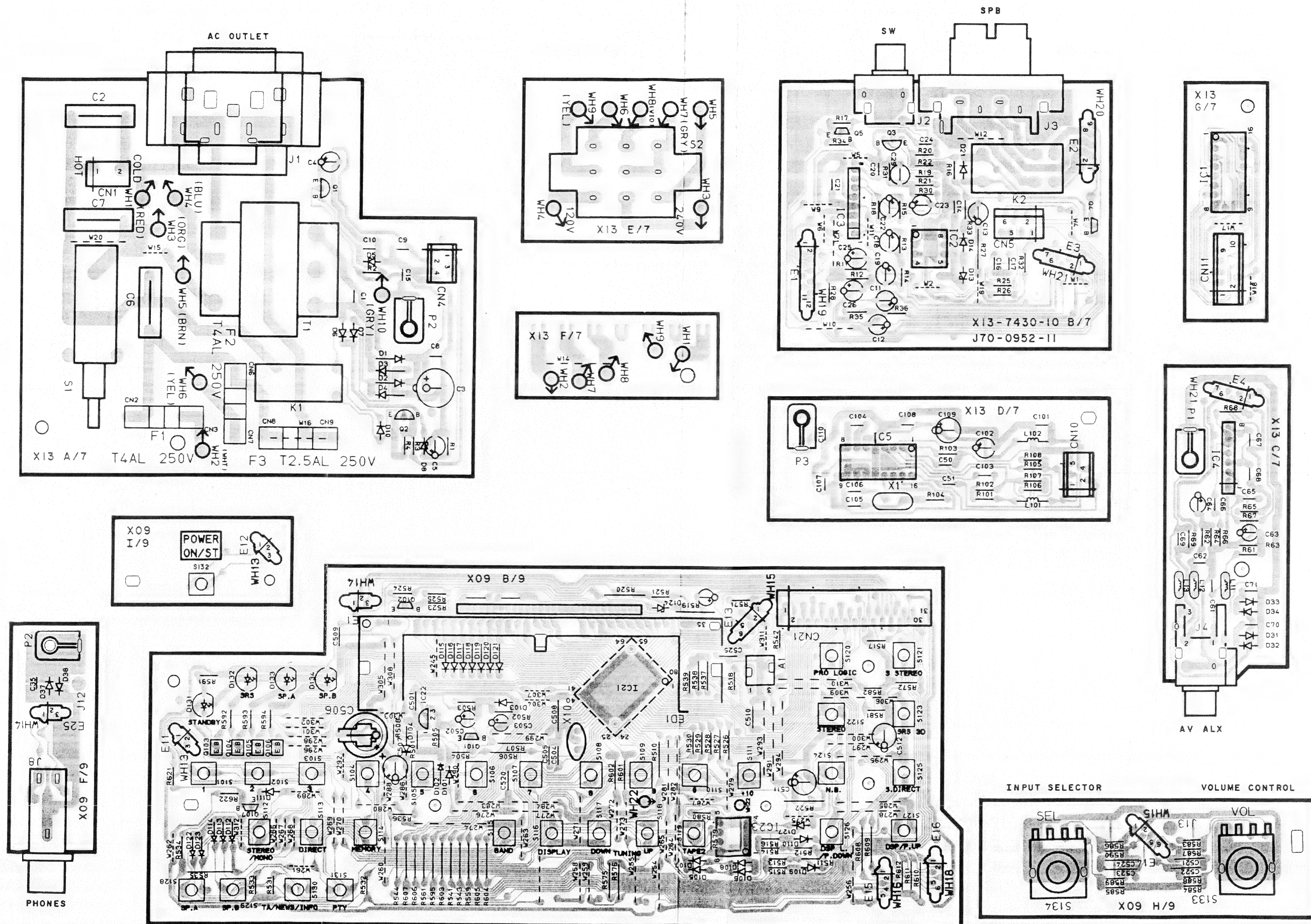








# PC BOARD (Component side view)



Refer to the schematic diagram for the values of resistors and capacitors.





(K,P,T,E TYPE)  
X09-A/9  
-CN17



(QTY)

3/4

10

1

11/11



11

11

T

1

K) (1/4)

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WV

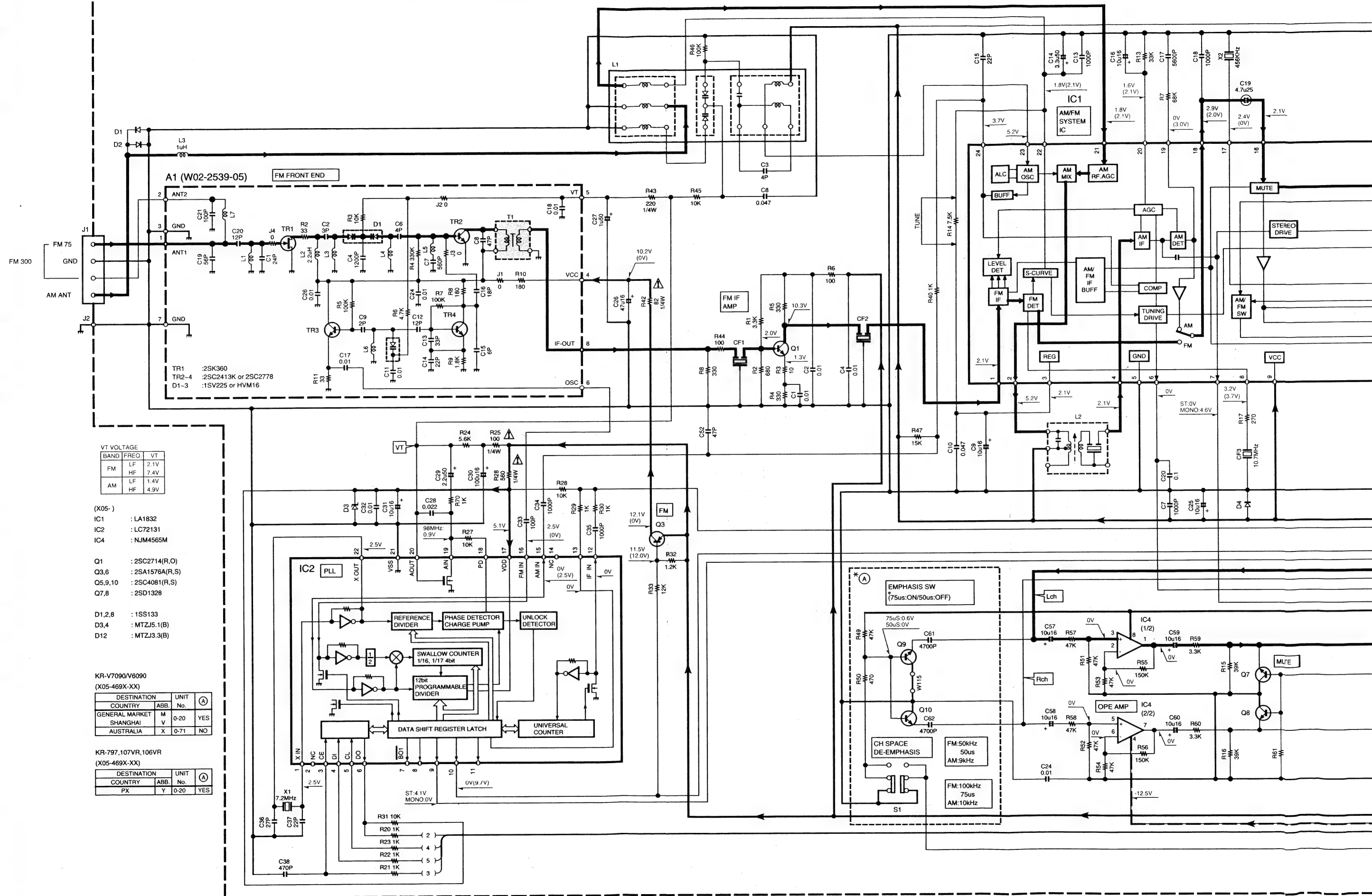
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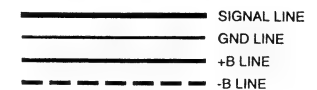
Y05-3280-10

106VR/107VR/KR-797/897/V6090/V7090)

KENWOOD

(X05-469X-XX) : M,V,X,Y TYPE



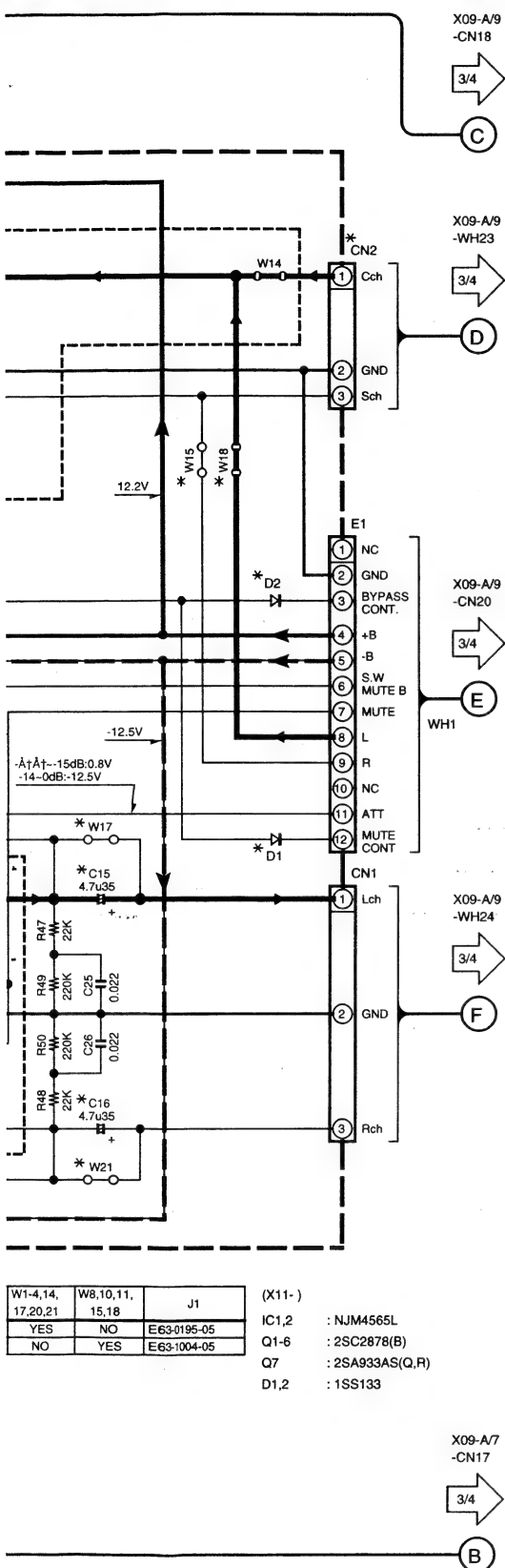


(X09- )  
IC18 : NJU7313AL  
IC19 : NJM4565D-D

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

KR- V7090/V6090/797,



## KR-V7090 (X09-451X-XX)

DESTINATION		UNIT	A	B	C	D	E7	E9	E10	E22	CN18	CN19	CN20	C17	C46	C128,132	R73	R74,76,82,87,88	R140	R145	R180	R211	R259	R260	R261	Q18	W46,187	W176	W177	W185	W205	W228	W230	WH21	WH23	WH24	WH26	WH27	WH28	1-E23-0047-04	
COUNTRY	ASSN	0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO
GENERAL MARKET	M	0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO
SHANGHAI	V	0-22	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO
AUSTRALIA	X	0-72	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO

## KR-V6090 (X09-451X-XX)

DESTINATION	COUNTRY	ABB	UNIT No.	A	B	C	D	E7	E9	E10	E22	CN18	CN19	CN20	C17	C46	C128,132	R73	R74,76,82,87,88	R140	R145	R180	R211	R259	R260	R261	Q18	W46,187	W176	W185	W205	W228	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04			
GENERAL MARKET	M		0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO
SHANGHAI	V		0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO
AUSTRALIA	X		0-71	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO
U.K.	T		2-71	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u71	YES	NO	YES	NO	6.8K 2W	4.7K	YES	6.8K 2W	120	120	6.8K 2W	NO	NO	YES	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO
EUROPE	E		3-81	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u71	YES	NO	YES	NO	6.8K 2W	4.7K	YES	6.8K 2W	120	120	6.8K 2W	NO	NO	YES	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	YES	YES	NO	YES
RUSSIA	Q		3-81	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u71	YES	NO	YES	NO	6.8K 2W	4.7K	YES	6.8K 2W	120	120	6.8K 2W	NO	NO	YES	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	YES	YES	NO	YES

## KR-897 (X09-451X-XX)

DESTINATION		UNIT No.	A	B	C	D	E7	E9	E10	E22	CN18	CN19	CN20	C17	C46	C128,132	R73	R74,76,82,87,88	R140	R145	R180	R211	R259	R260	R261	Q18	W46,187	W176	W177	W185	W205	W228	W230	WH21	WH23	WH24	WH26	WH27	WH28	1.E23-0047-04				
COUNTRY	ABB																																											
U.S.A.	K	0-13	NO	NO	YES	YES	YES	YES	YES	NO	14PIN	NO	NO	4700u80	NO	NO	NO	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	NO	NO	YES	NO	YES	YES	YES	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO	NO	
CANADA	P	0-13	NO	NO	YES	YES	YES	YES	YES	NO	14PIN	NO	NO	4700u80	NO	NO	NO	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	NO	NO	YES	NO	YES	YES	YES	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO	NO	

## KR-797 (X09-451X-XX)

DESTINATION		UNIT NO.	A	B	C	D	E7	E9	E10	E22	CN18	CN19	CN20	C17	C46	C128,132	R73	R74,76,82,87,88 156-158,181,182	R140	R145	R180	R211	R259	R260	R261- 264	Q18	W46,187	W176	W185	W205	W228	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04				
COUNTRY	ABB.																																										
U.S.A.	K	0-12	YES	NO	NO	YES	NO	YES	NO	YES	14PIN	NO	YES	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	YES	NO	NO	YES	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO
CANADA	P	0-12	YES	NO	NO	YES	NO	YES	NO	YES	14PIN	NO	YES	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	YES	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO
PX	Y	2-91	YES	NO	NO	YES	NO	YES	NO	YES	14PIN	NO	YES	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	YES	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO

## 107VR (X09-451X-XX)

DESTINATION	COUNTRY	ABB	UNIT No.	A	B	C	D	E7	E9	E10	E22	CN17	CN19	CN20	C17	C46	C128,132	R73	R74,76,82,87,88 156,158,181,182	R140	R141	R145	R180	R211	R259	R260	R261- 264	Q18	W46, 187,200	W176	W177	W185	W205	W228	W229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1.E23-0047-04
U.S.A.	K	P	0-11	YES	YES	YES	NO	NO	NO	YES	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO
CANADA	P	X	0-22	YES	YES	YES	NO	NO	NO	YES	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO

## 106VR (X09-451X-XX)

DESTINATION		UNIT NO.	A	B	C	D	E7	E9	E10	E22	CN18	CN19	CN20	C17	C46	C128,132	R73	R74,76,82,87,88	R140	R145	R180	R211	R259	R260	R261-264	Q18	W46,187,190,207	W176	W185	W205	W228	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04					
COUNTRY	ABB																																											
U.S.A.	K	0-10	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO	NO	NO	
CANADA	P	0-10	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO	NO	NO	
PX	Y	0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO	NO	NO	

## KR-V7090 (X13-743X-XX)

DESTINATION	COUNTRY	UNIT No.	X13-B7	X13-C7	X13-G7
GENERAL MARKET	M	0-21	YES	YES	YES
SHANGHAI	V	2-11	YES	YES	YES
AUSTRALIA	X	0-71	YES	YES	YES

## KR-V6090 (X13-744X-XX)

DESTINATION	COUNTRY	UNIT No.	X13-B7	X13-C7	X13-G7
GENERAL MARKET	M	0-20	NO	NO	NO
SHANGHAI	V	2-11	NO	NO	NO
AUSTRALIA	X	0-71	NO	NO	NO
U.K.	E	0-51	NO	NO	NO
EUROPE	E	0-51	NO	NO	NO
RUSSIA	Q	2-71	NO	NO	NO

## KR-797 (X13-744X-XX)

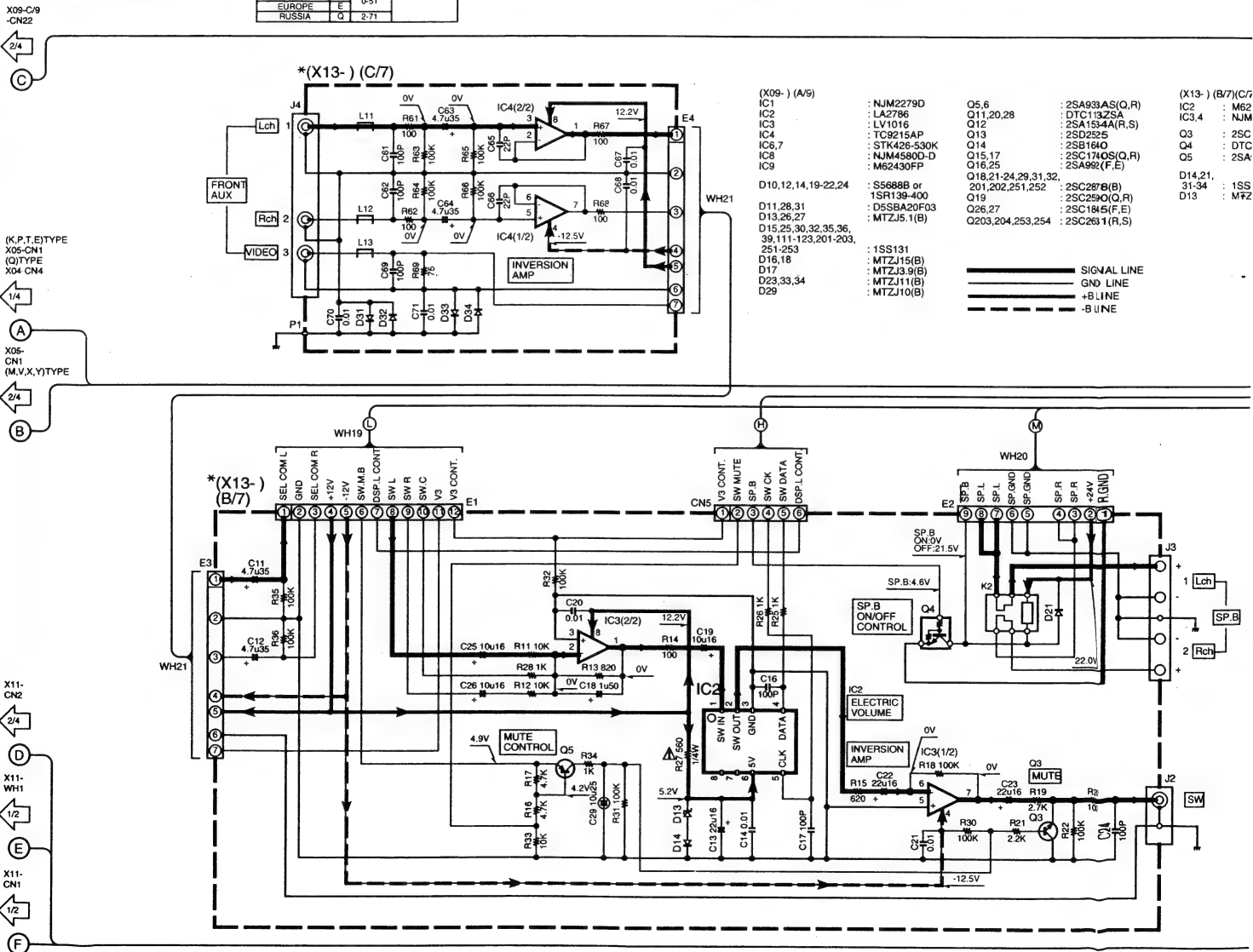
DESTINATION	COUNTRY	UNIT No.	X13-B7	X13-C7	X13-G7
U.S.A.	K	0-10	YES	YES	YES
CANADA	P	0-10	YES	YES	YES
PX	Y	2-91	YES	YES	YES

## 107VR (X13-743X-XX)

DESTINATION	COUNTRY	UNIT No.	X13-B7	X13-C7	X13-G7
U.S.A.	K	0-10	YES	YES	YES
CANADA	P	0-10	YES	YES	YES
PX	Y	2-91	YES	YES	YES

## 106VR (X13-744X-XX)

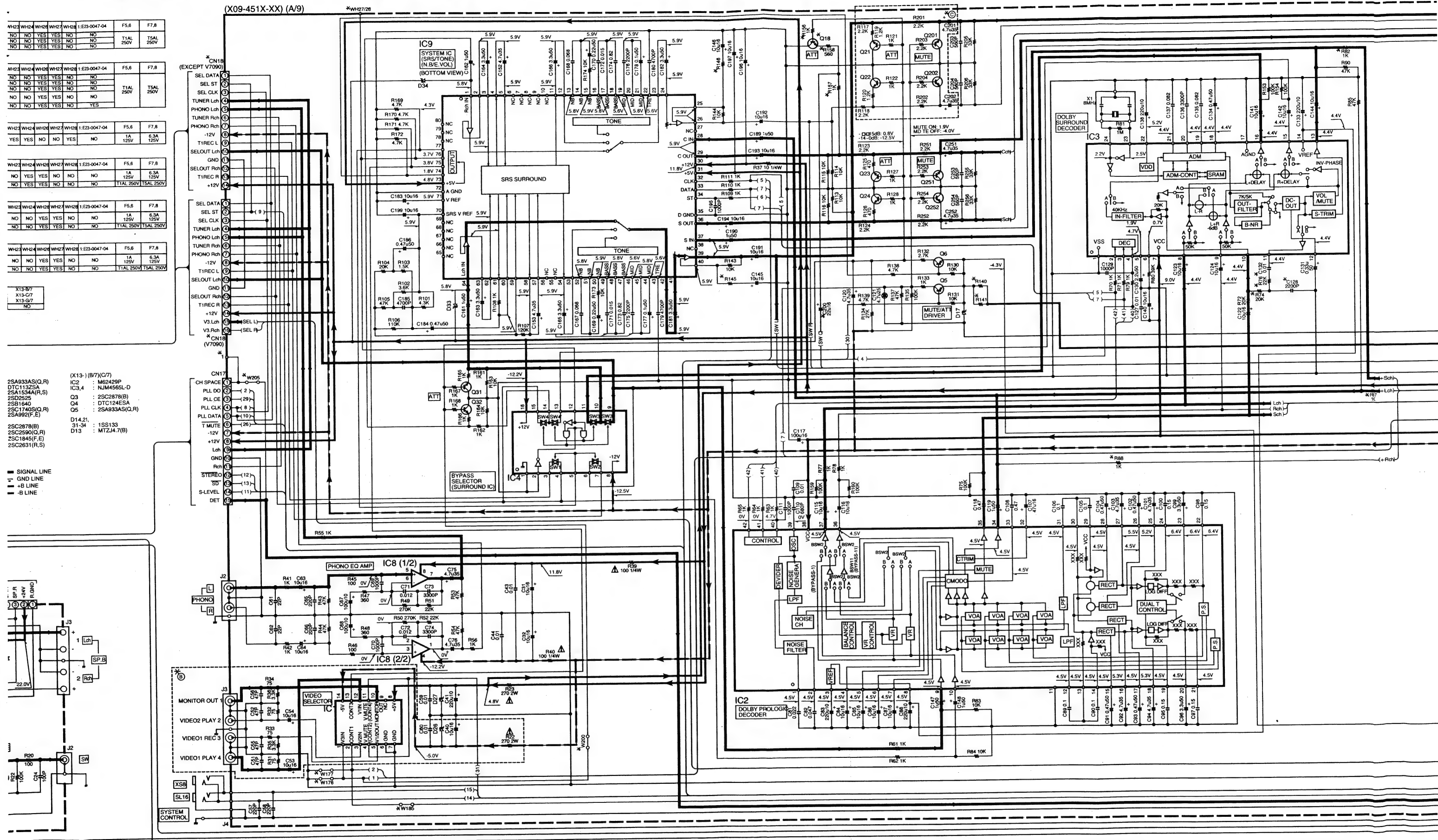
DESTINATION	COUNTRY	UNIT No.	X13-B7	X13-C7	X13-G7
U.S.A.	K	0-10	YES	YES	YES
CANADA	P	0-10	YES	YES	YES
PX	Y	2-91	YES	YES	YES





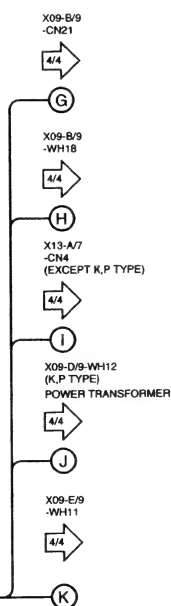
X13-B/7
X13-C/7
X13-G/7
NO

- SIGNAL LINE
- └ GND LINE
- +B LINE
- -B LINE









# KENWOOD

X09-A/9

-CN16

3/4

G

X13-B/7

-CN5

3/4

H

## KR-V7090 (X13-743X-XX)

DESTINATION	UNIT	WH3-9	S1	S2	W14, W15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6,7	X13-D/7	J1
COUNTRY	ABB No.															
GENERAL MARKET	M 0-21	YES	YES	YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	YES	YES	NO	C91-1488-05	NO	E03-0305-05
SHANGHAI	V 2-11								T4A 250							E03-0337-05
AUSTRALIA	X 0-71	NO	YES	NO	YES	YES	NO	L07-2129-05	T4AL 250	NO	NO	NO	NO		YES	E03-0325-05

## KR-V6090 (X13-744X-XX)

DESTINATION	UNIT	WH3-9	S1	S2	W14, W15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6,7	X13-D/7	J1
COUNTRY	ABB No.															
GENERAL MARKET	M 0-20	YES		YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	YES	YES	NO	C91-1488-05	NO	E03-0305-05
SHANGHAI	V 2-11															E03-0337-05
AUSTRALIA	X 0-71															E03-0325-05
U.K.	T 0-51	NO	YES	NO	YES	YES	NO	L07-2129-05	T3.15AL 250	NO	NO	NO	NO		YES	E03-0191-05
EUROPE	E 2-71									YES	YES	YES	YES			E03-0305-05
RUSSIA	Q 2-71															

## KR-797 (X13-744X-XX)

DESTINATION	UNIT	WH3-9	S1	S2	W14, W15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6	C7	X13-D/7	J1
COUNTRY	ABB No.																
GENERAL MARKET	Y 2-92	YES	NO	YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	NO	E03-0316-05

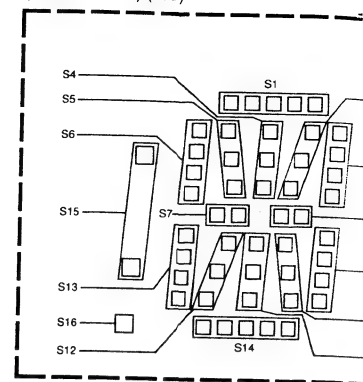
## 107VR (X13-743X-XX)

DESTINATION	UNIT	WH3-9	S1	S2	W14, W15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6	C7	X13-D/7	J1
COUNTRY	ABB No.																
GENERAL MARKET	Y 2-91	YES	NO	YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	NO	E03-0316-05

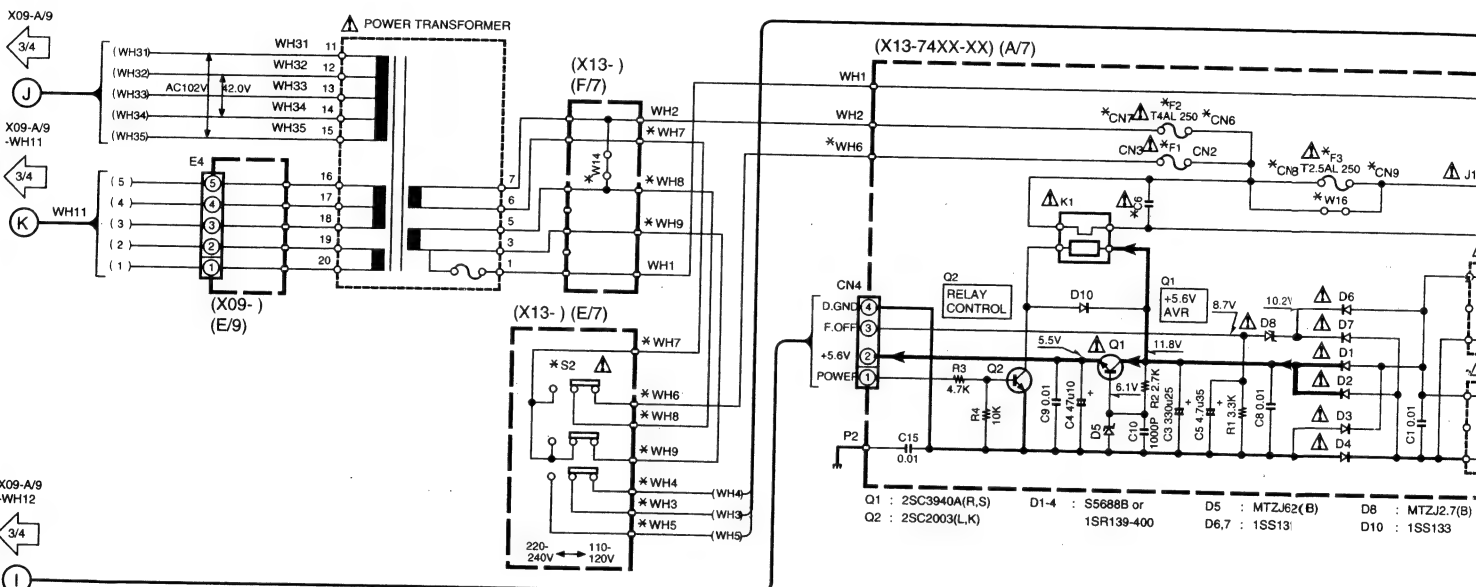
## 106VR (X13-744X-XX)

DESTINATION	UNIT	WH3-9	S1	S2	W14, W15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6	C7	X13-D/7	J1
COUNTRY	ABB No.																
GENERAL MARKET	Y 2-91	YES	NO	YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	NO	E03-0316-05

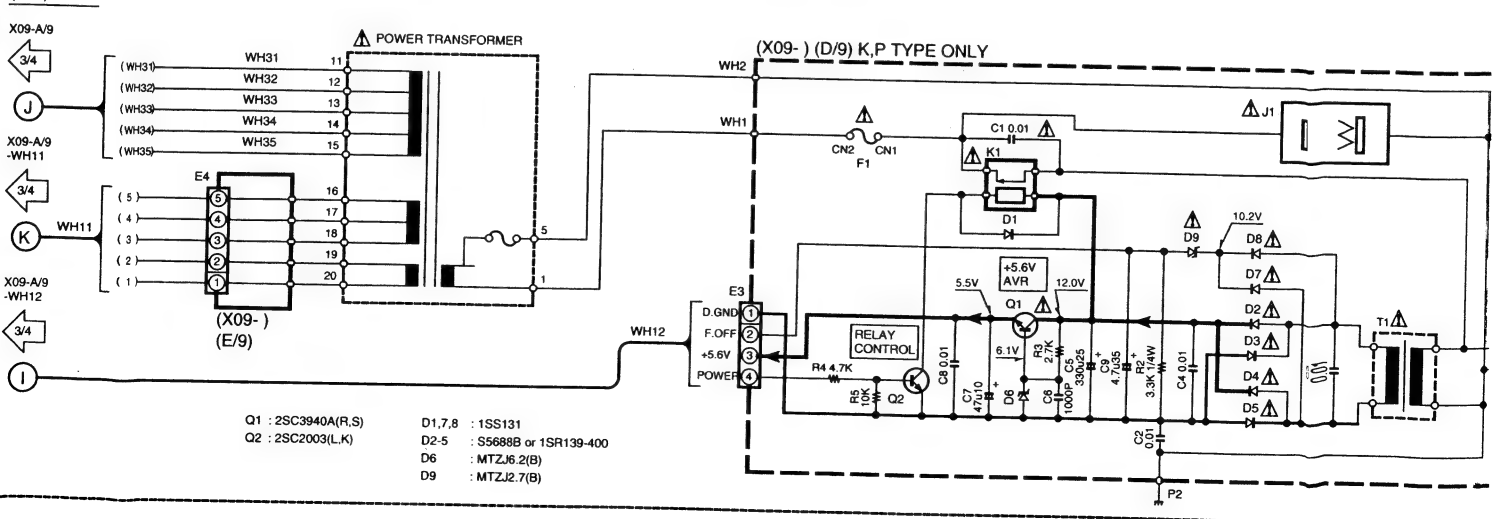
(X09-451X-XX) (B/9)



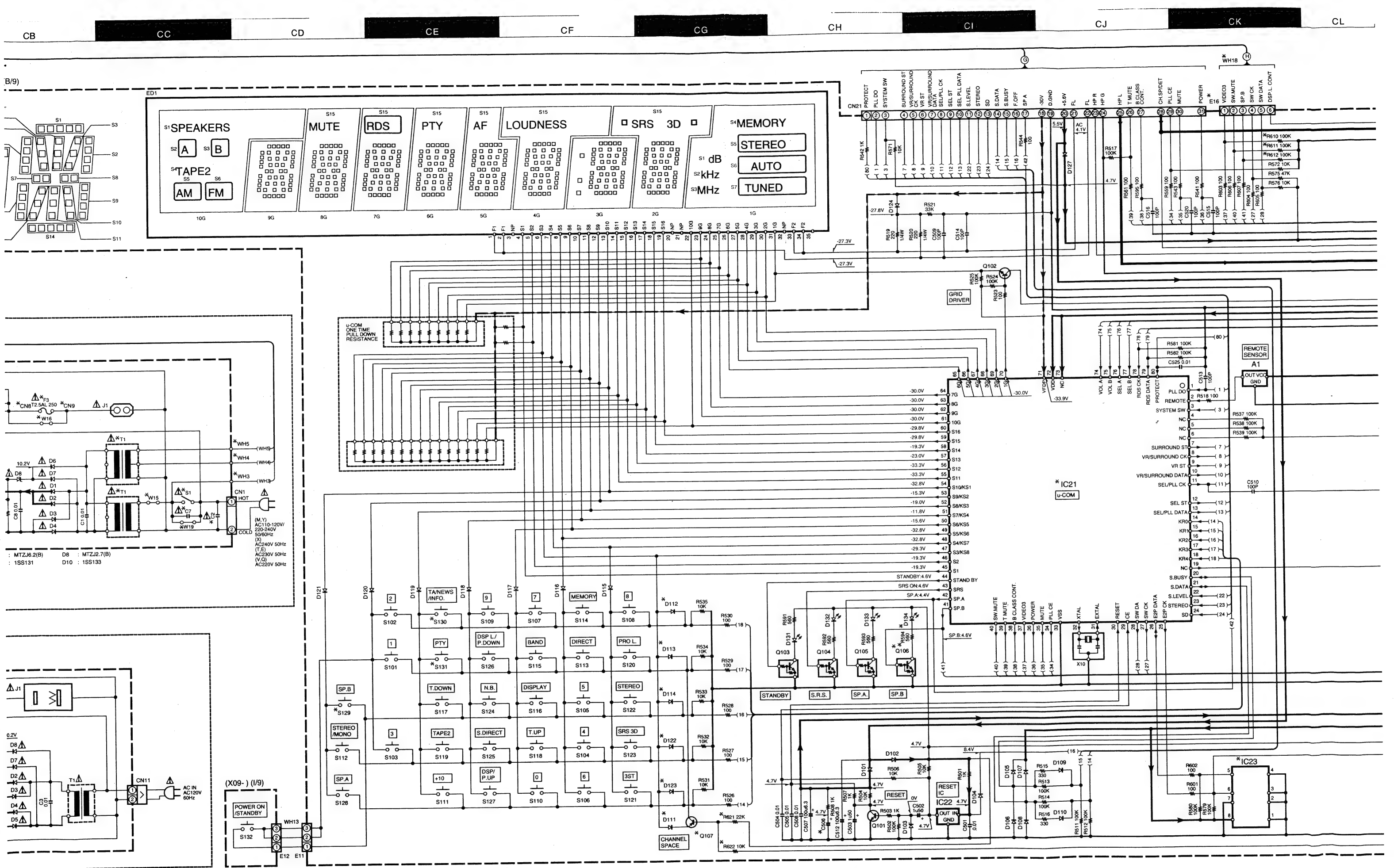
## EXCEPT (K,P) TYPE



## (K,P) TYPE



**CAUTION:** For components. For measurements.



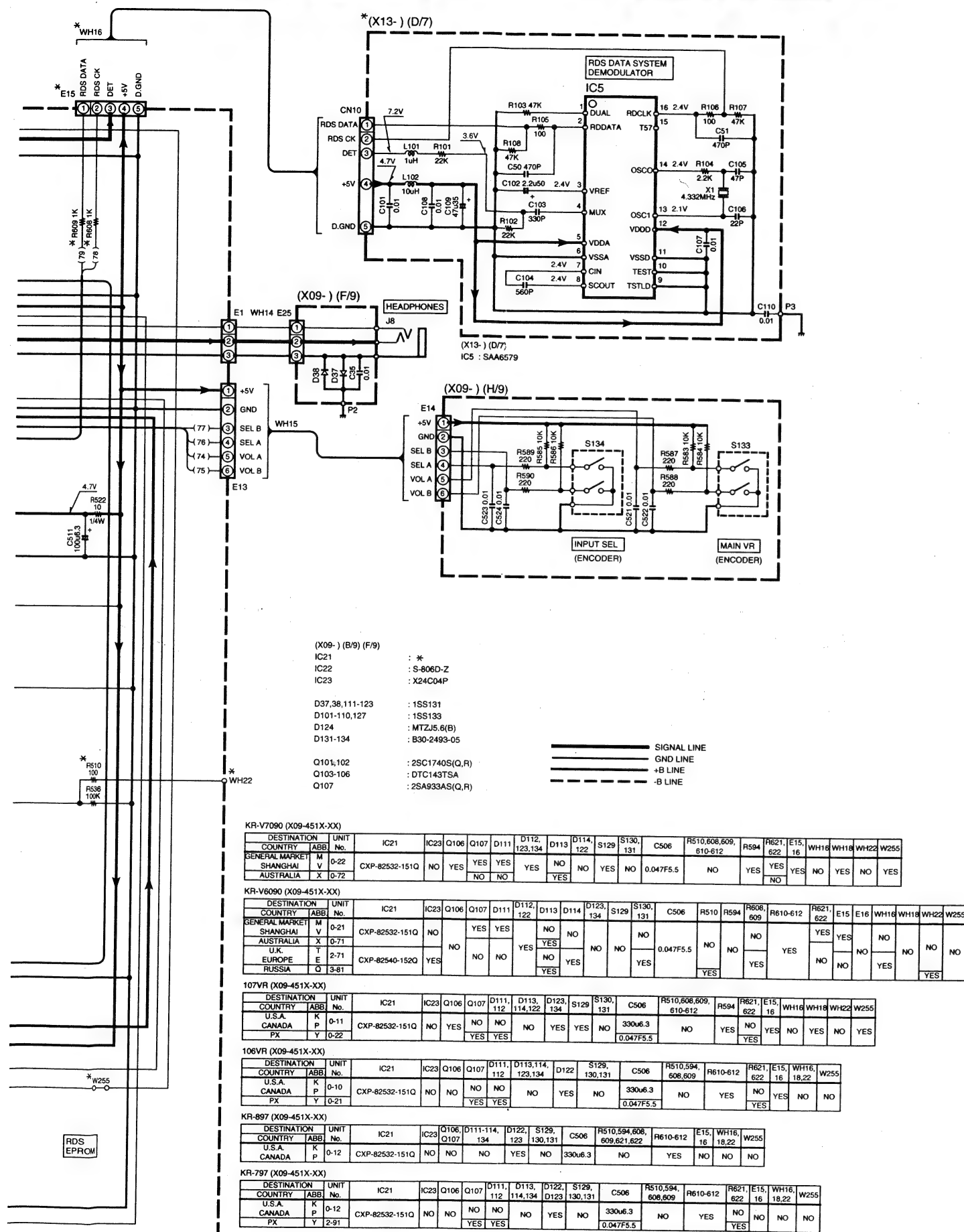
CM

CN

CO

CP

CQ



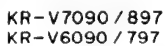
KR-V7090/6090/897/797,107VR,106VR(M) (4/4)

106VR/107VR/KR-797/897/V6090/V7090

Y05-3280-10

KENWOOD





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1

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
<b>KR-V6090/106VR</b>						
601	1A		A01-3378-01	METALLIC CABINET		
602	1A		A09-0356-08	BATTERY COVER		
604	2A	*	A60-1020-01	PANEL	KPY	
604	2A	*	A60-1021-01	PANEL	MX	
604	2A	*	A60-1022-01	PANEL	TEQ	
605	1A		A70-1107-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2298-02	ESCUTCHEON		
611	2A		B10-2285-02	FRONT GLASS	KPYMX	
611	2A		B10-2286-02	FRONT GLASS	TEQ	
612	2A		B11-0339-03	COLOR FILTER		
			B46-0096-53	WARRANTY CARD	X	
			B46-0197-00	QUESTIONNAIRE CARD	K	
			B46-0310-03	WARRANTY CARD	TEQ	
		*	B46-0329-03	WARRANTY CARD	V	
		*	B46-0330-03	WARRANTY CARD	KY	
		*	B46-0336-03	WARRANTY CARD	P	
			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
			B58-0964-13	CAUTION CARD	KY	
		*	B58-0965-13	CAUTION CARD	XT	
		*	B58-0966-13	CAUTION CARD	MVE	
		*	B58-0967-03	CAUTION CARD	P	
		*	B58-1526-03	CAUTION CARD	Q	
			B59-1104-00	SERVICE DIRECTORY	Y	
			B60-2983-00	INSTRUCTION MANUAL (ENGLISH)	KPY	
			B60-2984-00	INSTRUCTION MANUAL (FRENCH)	P	
			B60-2985-00	INSTRUCTION MANUAL (FRE/DUT)	E	
			B60-2986-00	INSTRUCTION MANUAL (ITA/SPA)	E	
			B60-2987-00	INSTRUCTION MANUAL (GERMAN)	E	
			B60-2988-00	INSTRUCTION MANUAL (ENGLISH)	T	
			B60-2989-00	INSTRUCTION MANUAL (SPANISH)	M	
		*	B60-2990-00	INSTRUCTION MANUAL (CHINESE)	V	
			B60-2991-00	INSTRUCTION MANUAL (TAIWAN)	M	
			B60-2992-00	INSTRUCTION MANUAL (RUSS/POL)	Q	
			B60-3072-00	INSTRUCTION MANUAL (ENGLISH)	MX	
616	1B		D21-1829-13	EXTENSION SHAFT	MXTEQ	
Δ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
Δ 621	1C		E30-2605-05	AC POWER CORD	Y	
Δ 621	1C		E30-2717-05	AC POWER CORD	X	
Δ 621	1C		E30-2721-05	AC POWER CORD	T	
Δ 621	1C		E30-2824-05	AC POWER CORD	V	
Δ 621	1C		E30-2842-05	AC POWER CORD	MEQ	
Δ 621	1C		E30-2849-05	AC POWER CORD	KP	
622	2B		E35-1679-05	FLAT CABLE		
628	1B		G11-2258-04	CUSHION		
			H10-7250-02	POLYSTYRENE FOAMED FIXTURE	EQ	
			H10-7250-02	POLYSTYRENE FOAMED FIXTURE	KPYMX	
			H10-7251-02	POLYSTYRENE FOAMED FIXTURE	EQ	
			H10-7251-02	POLYSTYRENE FOAMED FIXTURE	KPYMX	
			H10-7252-02	POLYSTYRENE FOAMED FIXTURE	T	
			H10-7253-02	POLYSTYRENE FOAMED FIXTURE		

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2

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
			H11-0070-04	POLYSTYRENE FOAMED BOARD	MXTEQ	
			H13-0231-04	CARTON BOARD	X	
			H25-0232-04	PROTECTION BAG (235X350X0.03)	EQ	
			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMX	
			H25-0391-04	PROTECTION BAG		
			H25-0651-04	PROTECTION BAG (0232)	T	
		*	H50-2161-04	ITEM CARTON CASE	T	
		*	H50-2162-04	ITEM CARTON CASE	KPY	
		*	H50-2271-04	ITEM CARTON CASE	M	
		*	H50-2272-04	ITEM CARTON CASE	V	
		*	H50-2307-04	ITEM CARTON CASE	XE	
		*	H50-2308-04	ITEM CARTON CASE	Q	
632	2C		J02-1148-13	FOOT (D=46,H=14.5)		
633	2C		J19-2808-05	HOLDER		
634	2B	*	J19-5786-04	UNIT HOLDER		
635	2C		J19-5787-04	UNIT HOLDER		
636	2C		J19-5788-04	UNIT HOLDER		
638	1B		J30-0466-04	SPACER	Q	
638	1B		J30-0466-04	SPACER	YMXTE	
Δ 639	2C		J42-0083-05	POWER CORD BUSHING		
			J61-0070-05	WIRE BAND	Q	
			J61-0070-05	WIRE BAND	YMXTE	
			J61-0307-05	WIRE BAND		
642	1B		K27-2185-04	KNOB (BUTTON)	MXTEQ	
643	2B		K29-6321-04	KNOB	TEQ	
644	2A		K29-6322-04	KNOB		
645	2A		K29-6508-02	KNOB		
646	2B		K29-6509-04	KNOB		
Δ 650	1B	*	L07-2247-05	POWER TRANSFORMER	KP	
Δ 650	1B	*	L07-2248-05	POWER TRANSFORMER	YM	
Δ 650	1B	*	L07-2249-05	POWER TRANSFORMER	X	
Δ 650	1B	*	L07-2267-05	POWER TRANSFORMER	TE	
Δ 650	1B	*	L07-2293-05	POWER TRANSFORMER	V	
Δ 650	1B	*	L07-2296-05	POWER TRANSFORMER	Q	
651	1A		T90-0801-05	LEAD WIRE ANTENNA	KPYMX	
652	1A		T90-0810-05	LEAD WIRE ANTENNA	TEQ	
652	1A		T90-0820-05	LOOP ANTENNA		
<b>KR-V7090/107VR</b>						
601	1A		A01-3378-01	METALLIC CABINET		
602	1A		A09-0356-08	BATTERY COVER		
604	2A	*	A60-1017-01	PANEL	KPY	
604	2A	*	A60-1018-01	PANEL	MX	
605	1A		A70-1107-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2298-02	ESCUTCHEON		
611	2A	*	B10-2284-02	FRONT GLASS		
612	2A		B11-0339-03	COLOR FILTER		
			B46-0096-53	WARRANTY CARD	X	
			B46-0197-00	QUESTIONNAIRE CARD	K	
		*	B46-0329-03	WARRANTY CARD	V	
		*	B46-0330-03	WARRANTY CARD	KY	
		*	B46-0336-03	WARRANTY CARD	P	
			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
			B58-0964-13	CAUTION CARD	KY	

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## PARTS LIST

106VR/107VR/KR-797/897/V6090/V7090

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3

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
-		*	B58-0965-13	CAUTION CARD	X	
-		*	B58-0966-13	CAUTION CARD	MV	
-		*	B58-0967-03	CAUTION CARD	P	
-		*	B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-2978-00	INSTRUCTION MANUAL (ENGLISH)	KPY	
-		*	B60-2979-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-2980-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-2981-00	INSTRUCTION MANUAL (CHINESE)	V	
-		*	B60-2982-00	INSTRUCTION MANUAL (TAIWAN)	M	
-		*	B60-3071-00	INSTRUCTION MANUAL (ENGLISH)	MX	
616	1B		D21-1829-13	EXTENSION SHAFT	MX	
Δ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
Δ 621	1C		E30-2605-05	AC POWER CORD	Y	
Δ 621	1C		E30-2717-05	AC POWER CORD	X	
Δ 621	1C		E30-2824-05	AC POWER CORD	V	
Δ 621	1C		E30-2842-05	AC POWER CORD	M	
Δ 621	1C		E30-2849-05	AC POWER CORD	KP	
622	2B	*	E35-1679-05	FLAT CABLE		
628	1B		G11-2258-04	CUSHION		
-			H10-7250-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7251-02	POLYSTYRENE FOAMED FIXTURE		
-			H11-0070-04	POLYSTYRENE FOAMED BOARD	MVX	
-			H13-0231-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-2160-04	ITEM CARTON CASE	KPY	
-		*	H50-2269-04	ITEM CARTON CASE	M	
-		*	H50-2270-04	ITEM CARTON CASE	V	
-		*	H50-2306-04	ITEM CARTON CASE	X	
632	2C		J02-1148-13	FOOT (D=46,H=14.5)		
633	2C		J19-2808-05	HOLDER		
634	2B	*	J19-5786-04	UNIT HOLDER		
635	2C		J19-5787-04	UNIT HOLDER		
636	2C		J19-5788-04	UNIT HOLDER		
Δ 638	1B		J30-0466-04	SPACER	YMVX	
Δ 639	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0070-05	WIRE BAND	YMVX	
-			J61-0307-05	WIRE BAND		
642	1B		K27-2185-04	KNOB (BUTTON)	MVX	
643	2B		K29-6321-04	KNOB		
644	2A		K29-6322-04	KNOB		
645	2A		K29-6508-02	KNOB		
Δ 650	1B	*	L07-2247-05	POWER TRANSFORMER	KP	
Δ 650	1B	*	L07-2248-05	POWER TRANSFORMER	YM	
Δ 650	1B	*	L07-2249-05	POWER TRANSFORMER	X	
Δ 650	1B	*	L07-2293-05	POWER TRANSFORMER	V	
651	1A		T90-0801-05	LEAD WIRE ANTENNA		
652	1A		T90-0820-05	LOOP ANTENNA		
<b>KR-797/897</b>						
601	1A		A01-3378-01	METALLIC CABINET		
602	1A		A09-0356-08	BATTERY COVER		
604	2A		A60-1087-01	PANEL (KR-897)	KP	

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
604	2A	*	A60-1088-01	PANEL (KR-797)	KPY	
605	1A		A70-1107-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2298-02	ESCUTCHEON		
611	2A		B10-2285-02	FRONT GLASS		
612	2A		B11-0339-03	COLOR FILTER		
-		*	B46-0197-00	QUESTIONNAIRE CARD	K	
-		*	B46-0328-03	WARRANTY CARD	KY	
-			B46-0336-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	
-		*	B58-0967-03	CAUTION CARD	P	
-		*	B58-1540-03	CAUTION CARD	K	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-3069-00	INSTRUCTION MANUAL (ENGLISH)	PY	
-		*	B60-3070-00	INSTRUCTION MANUAL (FRENCH)	P	
Δ 621	1C		E30-2605-05	AC POWER CORD	Y	
Δ 621	1C		E30-2849-05	AC POWER CORD	KP	
622	2B	*	E35-1679-05	FLAT CABLE		
-			H10-7250-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7251-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-2189-04	ITEM CARTON CASE	KP	
-		*	H50-2227-04	ITEM CARTON CASE	KPY	
632	2C		J02-1013-05	FOOT		
633	2C		J19-2808-05	HOLDER		
634	2B	*	J19-5786-04	UNIT HOLDER		
635	2C		J19-5787-04	UNIT HOLDER		
636	2C		J19-5788-04	UNIT HOLDER		
Δ 638	1B		J30-0466-04	SPACER	Y	
Δ 639	1C		J42-0083-05	POWER CORD BUSHING		
641	1A		J12-0091-15	PIN	KPY	
-			J61-0070-05	WIRE BAND	Y	
-			J61-0307-05	WIRE BAND		
644	2A		K29-6322-04	KNOB		
645	2A		K29-6508-02	KNOB		
646	2B		K29-6509-04	KNOB		
Δ 650	1B	*	L07-2247-05	POWER TRANSFORMER	KP	
Δ 650	1B	*	L07-2248-05	POWER TRANSFORMER	Y	
651	1A		T90-0801-05	LEAD WIRE ANTENNA		
652	1A		T90-0820-05	LOOP ANTENNA		
<b>POLAR UNIT (X04-1313-81)</b>						
C1			CE04LW1H010M	ELECTRO	1.0UF	50WV
C2 ,3			C91-1566-05	POLYPROPYLENE FILM CAPACITOR		
C4			CE04LW1A470M	ELECTRO	47UF	10WV
C5 ,6			CQ93FMG1H102J	MYLAR	1000PF	J
C7			CC45FSL1H331J	CERAMIC	330PF	J
C8			CK45FB1H102K	CERAMIC	1000PF	K
C9			CC93FCH1H471J	CERAMIC	470PF	J
C10 ,11			CE04LW1HR47M	ELECTRO	0.47UF	50WV
C12			CK45FF1H473Z	CERAMIC	0.047UF	Z

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C13 -15 C16 C17 ,18 C19 ,20 C21			CE04LW1H010M CK45FF1H103Z CE04LW1H2R2M CQ93FMG1H682J CK45FF1H103Z	ELECTRO 1.0UF 50WV CERAMIC 0.010UF Z ELECTRO 2.2UF 50WV MYLAR 6800PF J CERAMIC 0.010UF Z		
C22 C23 ,24 C25 C26 TC1			CE04LW1A470M CQ93FMG1H472J CC45FSL1H121J CE04LW1H2R2M C05-0463-05	ELECTRO 47UF 10WV MYLAR 4700PF J CERAMIC 120PF J ELECTRO 2.2UF 50WV CERAMIC TRIMMER CAPACITOR(120P		
CN2 ,3 CN4 CN5 CN6			E40-4871-05 E40-4372-05 E40-3259-05 E40-4872-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY		
- - - - -			H12-2330-04 H13-0262-04 H21-0343-04 H25-1609-04 H50-2411-04	PACKING FIXTURE CARTON BOARD PROTECTION SHEET PROTECTION BAG ITEM CARTON CASE		
L1 L2 ,3 L4			L39-1350-05 L79-1236-05 L40-1021-14	PEAKING COIL LC FILTER SMALL FIXED INDUCTOR(1.0MH,K)		
R9 VR1 VR2			RS14KB3A221J R12-3685-05 R12-1619-05	FL-PROOF RS 220 J 1W TRIMMING POT.(10K) TRIMMING POT.(4.7K)		
D1 D1 D2 ,3 D2 ,3 D4			MTZJ5.1(B) UZ-5.1BSB HSS104 1SS133 MTZJ5.1(B)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D4 D5 D5 D6 ,7 D6 ,7			UZ-5.1BSB MTZJ3.3(B) UZ-3.3BSB HSS104 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
IC1 IC2 IC3 Q1 Q1			IR3R42 NJM4565D TC4052BP 2SA1175(F,E) 2SA933AS(Q,R)	ANALOGUE IC ANALOGUE IC IC(4CH MPX/DE-MPX) TRANSISTOR TRANSISTOR		
Q2 ,3 Q4 Q4 Q5 Q5			2SC2878(B) 2SA1175(F,E) 2SA933AS(Q,R) DTC124ESA UN4212	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
<b>TUNER UNIT (X05-4690-20 : YMXV TYPE ONLY)</b>						
C1 ,2 C3 C4 C7 C8			CK73FB1H103K CC73FCH1H040C CK73FB1H103K CK73FB1H102K CK73FB1H473K	CHIP C 0.010UF K CHIP C 4.0PF C CHIP C 0.010UF K CHIP C 1000PF K CHIP C 0.047UF K		
C9 C10 C11			CE04LW1C100M CK73FB1H473K CE04LW1H010M	ELECTRO 10UF 16WV CHIP C 0.047UF K ELECTRO 1.0UF 50WV		

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C12 C13 C14 C15 C16			CE04LW1H2R2M CK73FB1H102K CE04LW1H3R3M CC73FCH1H220J CE04LW1C100M	ELECTRO 2.2UF 50WV CHIP C 1000PF K ELECTRO 3.3UF 50WV CHIP C 22PF J ELECTRO 10UF 16WV		
C17 C18 C19 C20 C21 ,22			CK73FB1H562K CK73FB1H102K CE04HW1E4R7M CK73FB1E104K CQ92FM1H113J	CHIP C 5600PF K CHIP C 1000PF K NP-ELEC 4.7UF 25WV CHIP C 0.10UF K MYLAR 0.011UF J		
C23 C24 C25 C26 C27			CE04LW1H010M CK73EB1H103K CE04LW1C100M CE04LW1C470M CE04LW1H010M	ELECTRO 1.0UF 50WV CHIP C 0.010UF K ELECTRO 10UF 16WV ELECTRO 47UF 16WV ELECTRO 1.0UF 50WV		
C28 C29 C30 C31 C32			CQ92FM1H223J CE04LW1H2R2M CE04LW1C101M CE04LW1C100M CK73FB1H103K	MYLAR 0.022UF J ELECTRO 2.2UF 50WV ELECTRO 100UF 16WV ELECTRO 10UF 16WV CHIP C 0.010UF K		
C33 C34 ,35 C36 C37 C38			CC73FSL1H101J CK73FB1H102K CC73FCH1H270J CC73FCH1H220J CK73FB1H471K	CHIP C 100PF J CHIP C 1000PF K CHIP C 27PF J CHIP C 22PF J CHIP C 470PF K		
C52 C57 -60 C61 ,62 C63			CC73FCH1H470J CE04LW1C100M CQ92FM1H472J CC73FCH1H220J	CHIP C 47PF J ELECTRO 10UF 16WV MYLAR 4700PF J CHIP C 22PF J	YMV	
CN1 J1			E40-9831-05 E70-0079-05	SOCKET FOR PIN ASSY LOCK TERMINAL BOARD		
J2		*	F10-1074-04	SHIELDING PLATE		
CF1 ,2 CF3 L1 L2 L3			L72-0531-05 L72-0593-05 L39-1348-05 L30-0911-05 L40-1091-17	CERAMIC FILTER CERAMIC FILTER COMBINATION COIL AM IFT SMALL FIXED INDUCTOR(1UH)		
X1 X2			L77-2187-05 L78-0295-05	CRYSTAL RESONATOR(7.2MHZ) RESONATOR (456KHZ)		
R1 R2 R3 R4 ,5 R6			RK73FB2A332J RK73FB2A681J RK73FB2A100J RK73FB2A331J RK73FB2A101J	CHIP R 3.3K J 1/10W CHIP R 680 J 1/10W CHIP R 10 J 1/10W CHIP R 330 J 1/10W CHIP R 100 J 1/10W		
R7 R8 R13 R15 ,16 R17			RK73FB2A683J RK73FB2A331J RK73FB2A333J RK73FB2A393J RK73FB2A271J	CHIP R 68K J 1/10W CHIP R 330 J 1/10W CHIP R 33K J 1/10W CHIP R 39K J 1/10W CHIP R 270 J 1/10W		
R18 R19 R21 -23 R24			RK73FB2A302J RK73FB2A822J RK73FB2A102J RK73FB2A562J	CHIP R 3.0K J 1/10W CHIP R 8.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 5.6K J 1/10W		

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R25			RD14NB2E101J	RD 100 J 1/4W		
R26			RD14NB2E561J	RD 560 J 1/4W		
R27 .28			RK73FB2A103J	CHIP R 10K J 1/10W		
R29 .30			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R31			RK73FB2A103J	CHIP R 10K J 1/10W		
R32			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R33			RK73FB2A123J	CHIP R 12K J 1/10W		
R41			RS14KB3A181J	FL-PROOF RS 180 J 1W		
R42			RD14NB2E820J	RD 82 J 1/4W		
R43			RD14NB2E221J	RD 220 J 1/4W		
R44			RK73FB2A101J	CHIP R 100 J 1/10W		
R46			RK73FB2A104J	CHIP R 100K J 1/10W		
R47			RK73FB2A153J	CHIP R 15K J 1/10W		
R48			RK73FB2A473J	CHIP R 47K J 1/10W		
R49			RK73FB2A473J	CHIP R 47K J 1/10W	YMV	
R50			RK73FB2A471J	CHIP R 470 J 1/10W	YMV	
R51 .54			RK73FB2A473J	CHIP R 47K J 1/10W		
R55 .56			RK73FB2A154J	CHIP R 150K J 1/10W		
R59 .60			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R61			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R62			RK73FB2A473J	CHIP R 47K J 1/10W		
R63			RK73FB2A821J	CHIP R 820 J 1/10W		
R64			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R65			RK73EB2B102J	CHIP R 1.0K J 1/8W		
W101-106			R92-0670-05	CHIP R 0 OHM		
W108-114			R92-0670-05	CHIP R 0 OHM	YMV	
W115			R92-0670-05	CHIP R 0 OHM		
W116			R92-0670-05	CHIP R 0 OHM		
W201			R92-0679-05	CHIP R 0 OHM		
W202			R92-0670-05	CHIP R 0 OHM		
W203-208			R92-0679-05	CHIP R 0 OHM		
W210,211			R92-0679-05	CHIP R 0 OHM		
S1			S62-0034-05	SLIDE SWITCH	YMV	
D1 .2			1SS133	DIODE		
D3 .4			MTZJ5.1(B)	ZENER DIODE		
D8			1SS133	DIODE		
D12			MTZJ3.3(B)	ZENER DIODE		
IC1			LA1832	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC4			NJM4565M	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q3			2SA1576A(R,S)	TRANSISTOR		
Q5			2SC4081(R,S)	TRANSISTOR		
Q6			2SA1576A(R,S)	TRANSISTOR		
Q7 .8			2SD1328	TRANSISTOR		
Q9 .10			2SC4081(R,S)	TRANSISTOR	YMV	
A1			W02-2539-05	FM FRONT-END ASSY		
<b>TUNER UNIT (X05-4700-10 : KPTEQ TYPE ONLY)</b>						
C1			CE04LW1C470M	ELECTRO 47UF 16WV		
C2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3 .6			CK73FB1H103K	CHIP C 0.010UF K		
C7 .8			CK73FB1H103K	CHIP C 0.010UF K	TEQ	
C8			CK73FB1H103K	CHIP C 0.010UF K	TEQ	

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C29			CK73EB1E104K	CHIP C 0.10UF K		KP
C30			CK73EB1E473K	CHIP C 0.047UF K		
C31			CE04LW1C470M	ELECTRO 47UF 16WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CE04LW1C100M	ELECTRO 10UF 16WV		
C34			CK73EB1E104K	CHIP C 0.10UF K		
C35			CE04LW1C100M	ELECTRO 10UF 16WV		
C36			CK73FB1E473K	CHIP C 0.047UF K		
C37			CK73EF1E105Z	CHIP C 1.0UF Z		
C38			C90-3217-05	ELECTRO 10UF 10WV		
C39			CK73FB1H102K	CHIP C 1000PF K	KPQ	
C40			C90-3253-05	ELECTRO 1.0UF 50WV		
C41			C90-3251-05	ELECTRO 0.47UF 50WV		
C42			C90-3240-05	ELECTRO 2.2UF 35WV		
C43			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C44			CK73FB1E473K	CHIP C 0.047UF K		
C45			CC73FCH1H220J	CHIP C 22PF J		
C46			CE04LW1A101M	ELECTRO 100UF 10WV		
C47			CK73FB1H562K	CHIP C 5600PF K	KP	
C47			CK73FB1H682K	CHIP C 6800PF K	TEQ	
C48			CC73FSL1H101J	CHIP C 100PF J	Q	
C48			CK73FB1H102K	CHIP C 1000PF K	TE	
C48			CK73FB1H122K	CHIP C 1200PF K	KP	
C49			C90-3253-05	ELECTRO 1.0UF 50WV		
C50			CK73FB1H102K	CHIP C 1000PF K	TEQ	
C51 .52			C90-3217-05	ELECTRO 10UF 10WV		
C53 .54			CK73FB1H223K	CHIP C 0.022UF K	TEQ	
C53 .54			CK73FB1H333K	CHIP C 0.033UF K	KP	
C55 .56			C90-3240-05	ELECTRO 2.2UF 35WV		
C57 .58			CK73FB1H822K	CHIP C 8200PF K	TE	
C59			CK73FB1H103K	CHIP C 0.010UF K	KPQ	
C60			CK73FB1E104K	CHIP C 0.10UF K	TEQ	
C61			CK73FB1H103K	CHIP C 0.010UF K		
C64			CK73FB1H333K	CHIP C 0.033UF K		
C66			CC73FCH1H060D	CHIP C 6.0PF D	TEQ	
C67			CC73FCH1H220J	CHIP C 22PF J	TEQ	
C68			CC73FSL1H020C	CHIP C 2.0PF C	TEQ	
C69			CK73FB1H103K	CHIP C 0.010UF K		
C70			CC73FSL1H101J	CHIP C 100PF J		
C81			CC73FCH1H220J	CHIP C 22PF J		
C82			CC73FCH1H270J	CHIP C 27PF J		
C84			CK73FB1H102K	CHIP C 1000PF K		
C85			C91-0745-05	CERAMIC 100PF K		
C86			C91-0757-05	CERAMIC 1000PF K		
C87			CE04LW1C100M	ELECTRO 10UF 16WV		
C89			CE04LW1C470M	ELECTRO 47UF 16WV		
C90			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C91			CQ92FM1H223J	MYLAR 0.022UF J		
C92			CC73FSL1H471J	CHIP C 470PF J		
C93			CK73FB1H103K	CHIP C 0.010UF K		
C94			CK73FB1H102K	CHIP C 1000PF K		
C95			CC73FCH1H470J	CHIP C 47PF J		
C96			CC73FSL1H101J	CHIP C 100PF J		
C97			CK73FB1H102K	CHIP C 1000PF K	KP	
C98			CC73FSL1H101J	CHIP C 100PF J	KP	

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C99 ,100			CC73FSL1H471J	CHIP C 470PF J	KPQ	
C102			CC73FSL1H181J	CHIP C 180PF J	KP	
C102			CK73FB1H102K	CHIP C 1000PF K	Q	
C103			CC73FSL1H101J	CHIP C 100PF J	KP	
CN1			E40-9831-05	SOCKET FOR PIN ASSY	KPTE	
CN2			E40-4871-05	PIN ASSY		
J1			E70-0079-05	LOCK TERMINAL BOARD	KP	
J1			E70-0080-05	LOCK TERMINAL BOARD	TEQ	
WH1			E35-1808-05	WIRING HARNESS	Q	
J2		*	F10-1074-04	SHIELDING PLATE	KP	
J2			F10-1075-04	SHIELDING PLATE	TEQ	
CF1 ,2			L72-0536-05	CERAMIC FILTER	TEQ	
CF1 ,2			L72-0596-05	CERAMIC FILTER	KP	
L31			L30-0910-05	FM IFT	KP	
L31			L30-0929-05	FM IFT	TEQ	
L32			L30-0930-05	FM IFT	TEQ	
L33			L30-0911-05	AM IFT		
L34			L79-1240-05	LC FILTER	TEQ	
L35 ,36			L79-1239-05	LC FILTER	TE	
L61			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L62			L39-1351-05	COMBINATION COIL		
L63			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
TEQ						
X31			L78-0295-05	RESONATOR (456KHZ)		
X81			L77-2187-05	CRYSTAL RESONATOR(7.2MHZ)		
R1			RD14NB2E101J	RD 100 J 1/4W		
R2			RK73EB2B221J	CHIP R 220 J 1/8W		
R3			RK73FB2A331J	CHIP R 330 J 1/10W	KP	
R3			RK73FB2A332J	CHIP R 3.3K J 1/10W	TEQ	
R4			RK73FB2A681J	CHIP R 680 J 1/10W		
R5			RK73FB2A331J	CHIP R 330 J 1/10W		
R6			RK73FB2A100J	CHIP R 10 J 1/10W	KP	
R6			RK73FB2A220J	CHIP R 22 J 1/10W	TEQ	
R7			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R8			RK73FB2A331J	CHIP R 330 J 1/10W		
R10			RK73FB2A332J	CHIP R 3.3K J 1/10W	TEQ	
R11			RK73FB2A681J	CHIP R 680 J 1/10W	TEQ	
R12			RK73FB2A122J	CHIP R 1.2K J 1/10W	TEQ	
R13 ,14			RK73FB2A331J	CHIP R 330 J 1/10W	TEQ	
R15			RK73FB2A101J	CHIP R 100 J 1/10W	TEQ	
R16			RK73FB2A220J	CHIP R 22 J 1/10W	TEQ	
R17			RK73FB2A621J	CHIP R 620 J 1/10W	TEQ	
R18			RK73FB2A123J	CHIP R 12K J 1/10W	TEQ	
R19			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	TEQ	
R20			RK73FB2A122J	CHIP R 1.2K J 1/10W	TEQ	
R22			RK73FB2A101J	CHIP R 100 J 1/10W	KP	
R30			RK73FB2A681J	CHIP R 680 J 1/10W		
R31			RS14KB3A820J	FL-PROOF RS 82 J 1W		
R32			RK73EB2B562J	CHIP R 5.6K J 1/8W		
R33			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R34			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R35			RK73FB2A392J	CHIP R 3.9K J 1/10W	KP	
R35 ,36			RK73FB2A333J	CHIP R 33K J 1/10W	TEQ	
R36			RK73FB2A243J	CHIP R 24K J 1/10W	KP	
R37			RK73FB2A302J	CHIP R 3.0K J 1/10W	TEQ	

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R37			RK73FB2A362J	CHIP R 3.6K J 1/10W	KP	
R38			RK73FB2A333J	CHIP R 33K J 1/10W		
R39			RK73FB2A223J	CHIP R 22K J 1/10W	KP	
R39			RK73FB2A473J	CHIP R 47K J 1/10W	TEQ	
R40			RK73FB2A332J	CHIP R 3.3K J 1/10W	TEQ	
R41			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R42			RK73FB2A473J	CHIP R 47K J 1/10W	TEQ	
R43 ,44			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R43 ,44			RK73FB2A392J	CHIP R 3.9K J 1/10W	KP	
R45 ,46			RK73FB2A122J	CHIP R 1.2K J 1/10W	TE	
R45 ,46			RK73FB2A332J	CHIP R 3.3K J 1/10W	KP	
R47 ,48			RK73FB2A392J	CHIP R 3.9K J 1/10W	TE	
R47 ,48			RK73FB2A393J	CHIP R 39K J 1/10W	KP	
R49			RK73FB2A473J	CHIP R 47K J 1/10W		
R51			RK73FB2A102J	CHIP R 1.0K J 1/10W	TEQ	
R52			RK73FB2A104J	CHIP R 100K J 1/10W	TEQ	
R53			RK73FB2A102J	CHIP R 1.0K J 1/10W	TEQ	
R54			RK73FB2A683J	CHIP R 68K J 1/10W	TEQ	
R55			RK73FB2A473J	CHIP R 47K J 1/10W	TEQ	
R56			RK73FB2A104J	CHIP R 100K J 1/10W	TEQ	
R59			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R67			RK73FB2A104J	CHIP R 100K J 1/10W		
R80			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R81 -83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73FB2A103J	CHIP R 10K J 1/10W		
R85 -87			RK73FB2A102J	CHIP R 1.0K J 1/10W	TEQ	
R88			RK73FB2A102J	CHIP R 1.0K J 1/10W	KP	
R89			RK73FB2A103J	CHIP R 10K J 1/10W		
R90			RD14NB2E101J	RD 100 J 1/4W		
R91			RK73FB2A102J	CHIP R 1.0K J 1/10W	KP	
R91			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R92			RK73FB2A123J	CHIP R 12K J 1/10W		
R93			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R94			RD14NB2E561J	RD 560 J 1/4W	KPTE	
R101,102			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPTE	
R103			RK73FB2A821J	CHIP R 820 J 1/10W	KPTE	
R104			RK73FB2A473J	CHIP R 47K J 1/10W	KPTE	
R105			RK73FB2A822J	CHIP R 8.2K J 1/10W	KPTE	
W51 -55			R92-0670-05	CHIP R 0 OHM		
W56 -58			R92-0679-05	CHIP R 0 OHM		
W59			R92-0670-05	CHIP R 0 OHM		
W60			R92-0679-05	CHIP R 0 OHM		
W61			R92-0670-05	CHIP R 0 OHM	TEQ	
W62 -65			R92-0679-05	CHIP R 0 OHM		
W66			R92-0670-05	CHIP R 0 OHM	TEQ	
W67			R92-0679-05	CHIP R 0 OHM		
W68			R92-0670-05	CHIP R 0 OHM	KP	
W69 -71			R92-0679-05	CHIP R 0 OHM		
W73			R92-0670-05	CHIP R 0 OHM	KP	
W73 ,74			R92-0670-05	CHIP R 0 OHM	TEQ	
W76 ,77			R92-0670-05	CHIP R 0 OHM	KP	
W80			R92-0670-05	CHIP R 0 OHM		
W81			R92-0679-05	CHIP R 0 OHM		
W82			R92-0670-05	CHIP R 0 OHM	KP	

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Δ indicates safety critical components.

## PARTS LIST

106VR/107VR/KR-797/897/N6090/N7090

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W83 -85			R92-0679-05	CHIP R 0 OHM		
D1			1SS133	DIODE	TEQ	
D31			MTZJ8.2(B)	ZENER DIODE		
D32			MA111	DIODE	TEQ	
D33			1SS133	DIODE		
D61 .62			1SS133	DIODE		
D81			MTZJ5.1(B)	ZENER DIODE		
D101			MTZJ3.3(B)	ZENER DIODE		
IC1			LA1836	ANALOGUE IC		
IC2			LC72131	MOS-IC	TEQ	
IC3			NJM2904M	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q2			2SC2714(R,O)	TRANSISTOR	TEQ	
Q3			2SA1576A(R,S)	TRANSISTOR	TEQ	
Q31			2SC4081(R,S)	TRANSISTOR	TEQ	
Q32			2SC4081(R,S)	TRANSISTOR		
Q81			2SA1576A(R,S)	TRANSISTOR		
Q101, 102			2SD1328	TRANSISTOR	KPTE	
Q103			2SA1576A(R,S)	TRANSISTOR	KPTE	
A1			W02-2539-05	FM FRONT-END ASSY	KP	
A1			W02-2565-05	FM FRONT-END ASSY	TE	
A1			W02-2579-05	FM FRONT-END ASSY	Q	

## AUDIO UNIT (X09-4510-12)

D131-133		*	B30-2493-05	LED(RED)		
C1		*	C91-1563-05	METALIZED FILM CAPACITOR	KP	
C2 -4		*	CK45FF1H103Z	CERAMIC 0.010UF Z	KP	
C5			CE04EW1E331M	ELECTRO 330UF 25WV	KP	
C6			CK45FB1H102K	CERAMIC 1000PF K	KP	
C7			CE04LW1A470M	ELECTRO 47UF 10WV	KP	
C8			CK45FF1H103Z	CERAMIC 0.010UF Z	KP	
C9			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	KP	
C11, 12		*	C91-1564-05	MF-C 0.22UF J		
C13 -16		*	CK45FE2H103P	CERAMIC 0.010UF P		
C17, 18		*	C90-3729-05	ELECTRO 4700UF 80WV	KPYMXV	
C17, 18		*	C90-3733-05	ELECTRO 4700UF 71WV	TEQ	
C19			CK45FF1H103Z	CERAMIC 0.010UF Z		
C20			CE04LW2A470M	ELECTRO 47UF 100WV		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04LW1V100M	ELECTRO 10UF 35WV		
C23, 24			CK45FF1H103Z	CERAMIC 0.010UF Z		
C25			CE04LW1V102M	ELECTRO 1000UF 35WV		
C26			CE04LW1V471M	ELECTRO 470UF 35WV		
C27, 28			CE04LW1E470M	ELECTRO 47UF 25WV		
C31, 32			CE04LW1C100M	ELECTRO 10UF 16WV		
C33			CE04LW1C470M	ELECTRO 47UF 16WV		
C34			CC45FSL1H101J	CERAMIC 100PF J		
C35			CK45FF1H103Z	CERAMIC 0.010UF Z		
C36			CE04LW1C470M	ELECTRO 47UF 16WV		
C39			CE04LW1C101M	ELECTRO 100UF 16WV		
C40			CE04LW1C100M	ELECTRO 10UF 16WV	2345	
C41			CE04LW1A221M	ELECTRO 220UF 10WV		
C42 -44			CK45FF1H103Z	CERAMIC 0.010UF Z		
C45			CE04LW1C220M	ELECTRO 22UF 16WV		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C46			CK45FF1H103Z	CERAMIC 0.010UF Z	1234	
C47			CE04LW1C470M	ELECTRO 47UF 16WV		
C48			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C49			CE04LW1A221M	ELECTRO 220UF 10WV		
C50			CE04HW1H010M	NP-ELEC 1.0UF 50WV	1234	
C51, 52			CC45FSL1H470J	CERAMIC 47PF J	3456	
C53, 54			CE04LW1C100M	ELECTRO 10UF 16WV	3456	
C55, 56			CC45FSL1H470J	CERAMIC 47PF J	3456	
C57, 58			CC45FSL1H221J	CERAMIC 220PF J		
C59			CK45FF1H103Z	CERAMIC 0.010UF Z		
C60			CK45FF1H103Z	CERAMIC 0.010UF Z	3456	
C61, 62			CC45FSL1H220J	CERAMIC 22PF J		
C63, 64			CE04LW1C100M	ELECTRO 10UF 16WV		
C65, 66			CC45FSL1H221J	CERAMIC 220PF J		
C67, 68			CE04LW1A101M	ELECTRO 100UF 10WV		
C69, 70			CK45FB1H102K	CERAMIC 1000PF K		
C71, 72			CQ92FM1H123J	MYLAR 0.012UF J		
C73, 74			CQ92FM1H332J	MYLAR 3300PF J		
C75, 76			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C77 -80			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
C81			CQ92FM1H223J	MYLAR 0.022UF J		
C82			CQ92FM1H473J	MYLAR 0.047UF J		
C83			CE04LW1A221M	ELECTRO 220UF 10WV		
C84 -87			CE04LW1C100M	ELECTRO 10UF 16WV		
C88			CE04LW1A221M	ELECTRO 220UF 10WV		
C89, 90			CF92FV1H104J	MF-C 0.10UF J		
C91			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C92			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C93			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C94			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C95			CF92FV1H154J	MF-C 0.15UF J		
C96			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C97, 98			CF92FV1H154J	MF-C 0.15UF J		
C99			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C100			CF92FV1H154J	MF-C 0.15UF J		
C101			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C102			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C103			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C104			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C105, 106			CF92FV1H104J	MF-C 0.10UF J		
C107			CE04LW1C470M	ELECTRO 47UF 16WV		
C108			CF92FV1H474J	MF-C 0.47UF J		
C109			CK45FF1H103Z	CERAMIC 0.010UF Z		
C110			CQ92FM1H681J	MYLAR 680PF J		
C111			CK45FB1H102K	CERAMIC 1000PF K		
C115, 116			CE04LW1C100M	ELECTRO 10UF 16WV		
C117			CE04LW1C101M	ELECTRO 100UF 16WV		
C118			CF92FV1H474J	MF-C 0.47UF J		
C119			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C120			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C121			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C122-124			CE04LW1C100M	ELECTRO 10UF 16WV		
C127			CK45FF1H103Z	CERAMIC 0.010UF Z		
C128			CK45FB1H222K	CERAMIC 2200PF K		
C129			CK45FB1H102K	CERAMIC 1000PF K		

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106VR/107VR/KR-797/897/V6090/V7090

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C130			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	56	
C131			CE04LW1HR33M	ELECTRO 0.33UF 50WV		
C132			CK45FF1H103Z	CERAMIC 0.010UF Z		
C133			CE04LW1A221M	ELECTRO 220UF 10WV		
C134			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C135			CQ92FM1H823J	MYLAR 0.082UF J		
C136			CQ92FM1H332J	MYLAR 3300PF J		
C137			CQ92FM1H823J	MYLAR 0.082UF J		
C138			CE04LW1A221M	ELECTRO 220UF 10WV		
C140-142			CE04LW1C100M	ELECTRO 10UF 16WV		
C144-146			CE04LW1C100M	ELECTRO 10UF 16WV		
C147,148			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C152,153			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C161,162			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C163-166			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C167,168			CQ92FM1H683J	MYLAR 0.068UF J		
C169,170			CE04LW1HR22M	ELECTRO 0.22UF 50WV		
C171,172			CQ92FM1H153J	MYLAR 0.015UF J		
C173,174			C91-1561-05	METALIZED POLYESTER FILM C.		
C175,176			CK45FB1H222K	CERAMIC 2200PF K		
C177,178			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C179,180			CK45FF1H472Z	CERAMIC 4700PF Z		
C181,182			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C183			CE04LW1C100M	ELECTRO 10UF 16WV		
C184			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C185			CK45FF1H472Z	CERAMIC 4700PF Z		
C186			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C189,190			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C191-194			CE04LW1C100M	ELECTRO 10UF 16WV		
C195			CK45FB1H102K	CERAMIC 1000PF K		
C196,197			CE04LW1C100M	ELECTRO 10UF 16WV	56 23456	
C199			CE04LW1C100M	ELECTRO 10UF 16WV		
C200			CE04LW1C220M	ELECTRO 22UF 16WV		
C201,202			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C203,204			CK45FB1H561K	CERAMIC 560PF K		
C205,206			CE04LW1C220M	ELECTRO 22UF 16WV		
C207,208			C91-1562-05	MF-C 1.0UF J		
C209,210			C90-3734-05	ALUMINIUM ELECTROLYTIC C.		
C211,212			CE04LW2A010M	ELECTRO 1.0UF 100WV		
C213,214			CE04LW2A470M	ELECTRO 47UF 100WV		
C215,216			CK45FF1H103Z	CERAMIC 0.010UF Z		
C217,218			CF92FV1H104J	MF-C 0.10UF J		
C221-224			CK45FE2H103P	CERAMIC 0.010UF P		
C251,252			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C253,254			CK45FB1H561K	CERAMIC 560PF K		
C255,256			CE04LW1A101M	ELECTRO 100UF 10WV	13456	
C257,258			C91-1562-05	MF-C 1.0UF J	13456	
C259,260			C90-3734-05	ALUMINIUM ELECTROLYTIC C.	13456	
C261,262			CE04LW2A010M	ELECTRO 1.0UF 100WV	13456	
C263,264			CE04LW2A470M	ELECTRO 47UF 100WV	13456	
C265,266			CK45FF1H103Z	CERAMIC 0.010UF Z	13456	
C267,268			CF92FV1H104J	MF-C 0.10UF J	13456	
C451,452			C91-0745-05	CERAMIC 100PF K	TEQ	
C453,454			C91-0745-05	CERAMIC 100PF K		
C455,456			C91-0745-05	CERAMIC 100PF K	TEQ	

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C457,458			C91-0745-05	CERAMIC 100PF K	TEQ	
C459-462			C91-0745-05	CERAMIC 100PF K		
C463,464			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C465,466			C91-0753-05	CHIP C 470PF K		
C467,468			CE04LW1C220M	ELECTRO 22UF 16WV		
C469,470			CK45FF1H103Z	CERAMIC 0.010UF Z		
C471			C91-0757-05	CERAMIC 1000PF K		
C501			C91-0769-05	CERAMIC 0.010UF K		
C502,503			C90-3253-05	ELECTRO 1.0UF 50WV		
C504,505			C91-0769-05	CERAMIC 0.010UF K		
C506			C90-1827-05	ELECTRO 0.047F 5.5WV	V YMXTEQ KP	
C506			C90-1827-05	ELECTRO 0.047F 5.5WV		
C506			C90-3216-05	ELECTRO 330UF 6.3WV		
C507			C90-3214-05	ELECTRO 100UF 6.3WV		
C508			C91-0769-05	CERAMIC 0.010UF K		
C509,510			C91-0745-05	CERAMIC 100PF K		
C511,512			C90-3214-05	ELECTRO 100UF 6.3WV		
C513-516			C91-0745-05	CERAMIC 100PF K		
C520			C91-0745-05	CERAMIC 100PF K		
C521-525			C91-0769-05	CERAMIC 0.010UF K		
CN11			E40-4245-05	PIN ASSY	KP 5	
CN16			E40-4918-05	FLAT CABLE CONNECTOR		
CN17			E40-9848-05	PIN ASSY	1234 KP	
CN18			E40-9888-05	PIN ASSY		
CN18			E40-9890-05	PIN ASSY		
CN19			E40-4807-05	PIN ASSY	KP56 1256	
CN20			E40-4254-05	FLAT CABLE CONNECTOR		
CN21			E40-4956-05	FLAT CABLE CONNECTOR		
CN22			E40-9906-05	SOCKET FOR PIN ASSY		
J1			E03-0316-05	AC OUTLET	KP	
J2			E63-0195-05	PHONO JACK	3456	
J3			E63-0196-05	PHONO JACK		
J4			E11-0347-05	MINIATURE PHONE JACK	1234	
J5			E63-0198-05	PHONO JACK		
J6		*	E70-0081-05	LOCK TERMINAL BOARD		
J7			E70-0082-05	LOCK TERMINAL BOARD		
J8			E11-0295-05	PHONE JACK (3P)		
J10,11			E63-0194-05	PHONO JACK		
WH1		*	E35-1721-05	WIRING HARNESS	KP KP	
WH2		*	E35-1722-05	WIRING HARNESS		
WH11		*	E82-5518-04	FINISHED WIRE	TEQ	
WH12		*	E82-4533-04	FINISHED WIRE		
WH13		*	E82-3512-04	FINISHED WIRE		
WH14		*	E82-3539-04	FINISHED WIRE		
WH15		*	E82-6518-04	FINISHED WIRE		
WH16		*	E82-5527-04	FINISHED WIRE	Q	
WH17		*	E84-7522-04	FINISHED WIRE		
WH22		*	E89-0001-05	FINISHED WIRE		
WH25		*	E82-4568-04	FINISHED WIRE		
WH26		*	E82-3568-04	FINISHED WIRE		
WH27		*	E89-0002-05	FINISHED WIRE		
WH31		*	E35-1763-05	WIRING HARNESS		
WH32		*	E35-1764-05	WIRING HARNESS		
WH33		*	E35-1765-05	WIRING HARNESS		
WH34		*	E35-1766-05	WIRING HARNESS		

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## PARTS LIST

106VR/107VR/KR-797/897/V6090/V7090



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WH35		*	E35-1767-05	WIRING HARNESS		
△ F1		*	F01-2070-15	HEAT SINK	KP	
△ F5 .6			F50-0078-05	FUSE(5X20)	KP	
△ F5 .6			F50-0066-05	FUSE(5X20)	YMXTEQ	
△ F7 .8			F50-0096-05	FUSE(5X20)	KP	
△ F7 .8		*	F50-0076-05	FUSE(5X20)		
△ F7 .8		*	F50-0103-05	FUSE(5X20)	YMXTEQ	
CN1 .2			J19-5644-03	HOLDER		
CN3 .6			J13-0075-05	FUSE CLIP	KP	
CN31-34			J13-0075-05	FUSE CLIP		
J9			J13-0075-05	FUSE CLIP		
J12 -15			J11-0809-05	WIRE CLAMPER		
L3 .4		*	L33-0541-05	CHOKE COIL		
L5 .6			L92-0054-05	FERRITE CORE		
L11 .12		*	L33-0541-05	CHOKE COIL	EQ	
L13 .14			L92-0054-05	FERRITE CORE	EQ	
△ T1			L07-2127-05	POWER TRANSFORMER	KP	
X1			L78-0290-05	RESONATOR (8MHZ)	EQ	
X10			L78-0290-05	RESONATOR (8MHZ)	TEQV	
X10			L78-0605-05	RESONATOR (8.38MHZ)	KPYMX	
CP1			R90-0488-05	MULTI-COMP 4.7KX8 J 1/6W		
△ R1			R92-1844-05	CARBON COMPOSITION RESISTOR	KP	
R2			RD14NB2E332J	RD 3.3K J 1/4W	KP	
△ R6			RS14KB3A150J	FL-PROOF RS 15 J 1W		
R12			RD14NB2E330J	RD 33 J 1/4W		
R19			RD14NB2E101J	RD 100 J 1/4W		
△ R22			RS14KB3D271J	FL-PROOF RS 270 J 2W	3456	
△ R23			RS14KB3D271J	FL-PROOF RS 270 J 2W		
△ R28 -30			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R37			RD14NB2E100J	RD 10 J 1/4W		
△ R39 .40			RD14NB2E101J	RD 100 J 1/4W		
R140.141		*	RS14KB3D682J	FL-PROOF RS 6.8K J 2W	TEQ	
R140.141		*	RS14KB3D822J	FL-PROOF RS 8.2K J 2W	KPYMXV	
R147.148			RS14KB3D471J	FL-PROOF RS 470 J 2W		
R211-214			RS14KB3D682J	FL-PROOF RS 6.8K J 2W	TEQ	
R211-214			RS14KB3D822J	FL-PROOF RS 8.2K J 2W	KPYMXV	
R215			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R216			RS14KB3A102J	FL-PROOF RS 1.0K J 1W		
△ R217.218			RD14NB2E681J	RD 680 J 1/4W		
R219.220		*	R92-1843-05	FL-PROOF RS 0.22 J 5W		
R229.230			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R235-238		*	R92-1852-05	FL-PROOF RS 0.33 J 5W		
R239			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R241			RS14KB3A102J	FL-PROOF RS 1.0K J 1W		
R261-264			RS14KB3D682J	FL-PROOF RS 6.8K J 2W	TEQ	
R261-264			RS14KB3D822J	FL-PROOF RS 8.2K J 2W	23456	
△ R265.266			RS14KB3D272J	FL-PROOF RS 2.7K J 2W		
R267.268			RD14NB2E681J	RD 680 J 1/4W		
R269.270		*	R92-1843-05	FL-PROOF RS 0.22 J 5W		
R279.280			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R280-280		*	R92-1852-05	FL-PROOF RS 0.33 J 5W	13456	

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R519,520			RD14NB2E221J	RD 220 J 1/4W		
R522			RD14NB2E100J	RD 10 J 1/4W		
K1			S76-0057-05	MAGNETIC RELAY	KP	
△ K2 .3		*	S76-0056-05	MAGNETIC RELAY		
K4			S76-0063-05	MAGNETIC RELAY		
S1			S62-0034-05	SLIDE SWITCH		
S101-128			S70-0031-05	TACT SWITCH		
S129			S70-0031-05	TACT SWITCH	56	
S130-131			S70-0031-05	TACT SWITCH	TEQ	
S132			S70-0031-05	TACT SWITCH		
S133			T99-0559-05	ROTARY ENCODER		
S134			T99-0571-05	ROTARY ENCODER		
D1			1SS131	DIODE	KP	
△ D2 -5			S5688B	DIODE	KP	
D2 -5			1SR139-400	DIODE	KP	
D6			MTZJ6.2(B)	ZENER DIODE	KP	
△ D7 .8			1SS131	DIODE	KP	
△ D9			MTZJ2.7(B)	ZENER DIODE	KP	
△ D10			S5688B	DIODE		
△ D10			1SR139-400	DIODE		
△ D11			D5SBA20F03	DIODE		
△ D12			S5688B	DIODE		
△ D12			1SR139-400	DIODE		
△ D13			MTZJ5.1(B)	ZENER DIODE		
△ D14			S5688B	DIODE		
△ D14			1SR139-400	DIODE		
△ D15			1SS131	DIODE		
D16			MTZJ15(B)	ZENER DIODE		
△ D17			MTZJ3.9(B)	ZENER DIODE		
D18			MTZJ15(B)	ZENER DIODE		
△ D19 -22			S5688B	DIODE		
△ D19 -22			1SR139-400	DIODE		
△ D23			MTZJ11(B)	ZENER DIODE		
△ D24			S5688B	DIODE		
△ D24			1SR139-400	DIODE		
D25			1SS131	DIODE		
D26			MTZJ5.1(B)	ZENER DIODE	12	
△ D27			MTZJ5.1(B)	ZENER DIODE		
△ D28			D5SBA20F03	DIODE		
D29			MTZJ10(B)	ZENER DIODE		
△ D30			1SS131	DIODE		
△ D31			D5SBA20F03	DIODE		
D32			1SS131	DIODE		
△ D33 .34			MTZJ11(B)	ZENER DIODE		
△ D35 -42			1SS131	DIODE		
D101-110			1SS133	DIODE		
D111			1SS131	DIODE	YM	
D112			1SS131	DIODE	YMXTEQ	
△ D113			1SS131	DIODE	XQ	
D114			1SS131	DIODE	TEQ	
△ D115-121			1SS131	DIODE	KPYMXV	
D122			1SS131	DIODE	1234	
△ D123			1SS131	DIODE	1256	

L : Scandinavia  
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K : USA  
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M : Other Areas

R : Mexico  
G : Germany

1 : KR-797  
3 : KR-V6090  
5 : KR-V7090  
2 : KR-897  
4 : 106VR  
6 : 107VR

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106VR/107VR/KR-797/897/V6090/V7090

## PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D124 D127 D201-203 D251-253 ED1			MTZJ5.6(B) 1SS133 1SS131 1SS131 FIP10DM6R	ZENER DIODE DIODE DIODE DIODE INDICATOR TUBE		
IC1 IC2 IC3 IC4 IC6			NJM2279D LA2786 LV1016 TC9215AP STK426-530K	IC(VIDEO IC) ANALOGUE IC DI BI-POLAR IC ANALOGUE IC HYBRID IC	3456	
IC7 IC8 IC9 IC18 IC19		*	STK426-530K NJM4580D-D M62430FP NJU7313AL NJM4565D-D	HYBRID IC IC(OP AMP X2) ANALOGUE IC ANALOGUE IC IC(OP AMP X2)	13456	
IC21 IC21 IC22 IC23 Q1			CXP82532-151Q CXP82540-152Q S-806D-Z X24C04P 2SC3940A(R,S)	MI-COM IC MI-COM IC ANALOGUE IC MEMORY IC TRANSISTOR	KPYMX TEQ	
Q2 Q5 ,6 Q11 Q12 Q13			2SC2003(L,K) 2SA933AS(Q,R) DTC113ZSA 2SA1534A(R,S) 2SD2525	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	TEQ KP	
Q14 Q15 Q16 Q17 Q18			2SB1640 2SC1740S(Q,R) 2SA992(F,E) 2SC1740S(Q,R) 2SC2878(B)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	56	
Q19 Q20 Q21 -22 Q23 ,24 Q25			2SC2590(Q,R) DTC113ZSA 2SC2878(B) 2SC2878(B) 2SA992(F,E)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	23456	
Q26 ,27 Q28 Q29 Q30 Q31 ,32			2SC1845(F,E) DTC113ZSA 2SC2878(B) 2SC1740S(Q,R) 2SC2878(B)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q101,102 Q103-105 Q106 Q107 Q201,202			2SC1740S(Q,R) DTC143TSA DTC143TSA 2SA933AS(Q,R) 2SC2878(B)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1234 YMV 23456	
Q203,204 Q251,252			2SC2631(R,S) 2SC2878(B)	TRANSISTOR TRANSISTOR	23456	
A1			W02-2583-05	OPTIC RECEIVING MODULE		
<b>CONTROL UNIT (X11-3710-10 : KR-797/897 ONLY)</b>						
C4 C5 ,6 C7 -10 C9 ,10 C13 ,14			CE04HW1E4R7M C91-0749-05 CE04LW1V4R7M CE04LW1V470M C91-0749-05	CERAMIC 220PF K CERAMIC 220PF K ELECTRO 4.7UF 35WV ELECTRO 47UF 35WV CERAMIC 220PF K	2 1 2	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C15 ,16 C17 ,18 C19 ,20 C23 ,24 C25 ,26			CE04LW1V4R7M CE04LW1V4R7M CE04LW1H100M CQ92FM1H472J CQ92FM1H223J	ELECTRO 4.7UF 35WV ELECTRO 4.7UF 35WV ELECTRO 10UF 50WV MYLAR 4700PF J MYLAR 0.022UF J	1 2 2 1	
CN1 CN2 J1 J2 J2			E40-4293-05 E40-4293-05 E63-0195-05 E63-0195-05 E63-1004-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PHONO JACK PHONO JACK PHONO JACK	2 1 2	
WH1		*	E83-2515-04	FINISHED WIRE		
D1 ,2 IC1 IC2 Q1 -4 Q5 ,6 Q8			1SS133 NJM4565L NJM4565L 2SC2878(B) 2SC2878(B) 2SA933AS(Q,R)	DIODE ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR TRANSISTOR	2 1 2 2 2	
<b>SUB UNIT (X13-7430-10)</b>						
C1 C1 C2 C2 C3			CK45FF1H103Z CK45FF1H103Z C91-1488-05 C91-1563-05 CE04EW1E331M	CERAMIC 0.010UF Z CERAMIC 0.010UF Z MF 6800PF 250VAC METALIZED FILM CAPACITOR ELECTRO 330UF 25WV	Q Q YXTEQ MV Q	
C3 C4 C4 C5 C5			CE04EW1E331M CE04LW1A470M CE04LW1A470M CE04LW1V4R7M CE04LW1V4R7M	ELECTRO 330UF 25WV ELECTRO 47UF 10WV ELECTRO 47UF 10WV ELECTRO 4.7UF 35WV ELECTRO 4.7UF 35WV	Y Q Y Q Y	
C6 C6 ,7 C7 C8 ,9 C8 ,9			C91-1488-05 C91-1563-05 C91-1488-05 CK45FF1H103Z CK45FF1H103Z	MF 6800PF 250VAC METALIZED FILM CAPACITOR MF 6800PF 250VAC CERAMIC 0.010UF Z CERAMIC 0.010UF Z	YXTEQ MV XTEQ Q Y	
C10 C10 C11 ,12 C13 C14			CK45FB1H102K CK45FB1H102K CE04LW1V4R7M CE04LW1C220M CK45FF1H103Z	CERAMIC 1000PF K CERAMIC 1000PF K ELECTRO 4.7UF 35WV ELECTRO 22UF 16WV CERAMIC 0.010UF Z	Q Q 56 56 56	
C15 C15 C16 ,17 C18 C19			CK45FF1H103Z CK45FF1H103Z CC45FSL1H101J CE04LW1H101M CE04LW1C100M	CERAMIC 0.010UF Z CERAMIC 0.010UF Z CERAMIC 100PF J ELECTRO 1.0UF 50WV ELECTRO 10UF 16WV	Q Y 56 56 56	
C20 ,21 C22 ,23 C24 C25 ,26 C29			CK45FF1H103Z CE04LW1C220M CC45FSL1H101J CE04LW1C100M CE04LW1E100M	CERAMIC 0.010UF Z ELECTRO 22UF 16WV CERAMIC 100PF J ELECTRO 10UF 16WV ELECTRO 10UF 25WV	56 56 56 56 56	
C50 ,51 C61 ,62 C63 ,64 C65 ,66 C67 ,68			CK45FB1H471K CC45FSL1H101J C90-3242-05 CC45FCH1H220J CK45FF1H103Z	CERAMIC 470PF K CERAMIC 100PF J ELECTRO 4.7UF 35WV CERAMIC 22PF J CERAMIC 0.010UF Z	TEQ 56 56 56 56	

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PARTS LIST

106VR/107VR/KR-797/897/M6090/N7090

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
C69			CC45FSL1H101J	CERAMIC 100PF J	56	
C70, 71			CK45FF1H103Z	CERAMIC 0.010UF Z	56	
C101			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
C102			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	TEQ	
C103			CC45FSL1H331J	CERAMIC 330PF J	TEQ	
C104			CK45FB1H561K	CERAMIC 560PF K	TEQ	
C105			CC45FCH1H470J	CERAMIC 47PF J	TEQ	
C106			CC45FCH1H220J	CERAMIC 22PF J	TEQ	
C107, 108			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
C109			CE04LW1V470M	ELECTRO 47UF 35WV	TEQ	
C110			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
CN1			E40-4245-05	PIN ASSY	Q	
CN1			E40-4245-05	PIN ASSY	Y	YMXVTE
CN4			E40-4294-05	FLAT CABLE CONNECTOR	Q	
CN4			E40-4294-05	FLAT CABLE CONNECTOR	Y	YMXVTE
CN5			E40-4296-05	FLAT CABLE CONNECTOR	56	
CN10			E40-4295-05	FLAT CABLE CONNECTOR	TEQ	
CN11			E40-4284-05	FLAT CABLE CONNECTOR	56	
Δ J1			E03-0109-05	AC OUTLET	T	
Δ J1			E03-0305-05	AC OUTLET	MEQ	
Δ J1			E03-0316-05	AC OUTLET	Y	
Δ J1			E03-0325-05	AC OUTLET	X	
Δ J1		*	E03-0337-05	AC OUTLET	V	
J2			E63-0198-05	PHONO JACK	56	
J3			E70-0083-05	PHONO JACK	56	
J4			E63-0197-05	PHONE JACK	56	
WH1		*	E35-1700-05	WIRING HARNESS	Q	
WH1		*	E35-1700-05	WIRING HARNESS	Y	YMXVTE
WH2		*	E35-1701-05	WIRING HARNESS	Q	
WH2		*	E35-1701-05	WIRING HARNESS	Y	YMXVTE
WH3		*	E35-1702-05	WIRING HARNESS	YM	
WH4		*	E35-1703-05	WIRING HARNESS	YM	
WH5		*	E35-1704-05	WIRING HARNESS	YM	
WH6		*	E35-1705-05	WIRING HARNESS	YM	
WH7		*	E35-1706-05	WIRING HARNESS	YM	
WH8		*	E35-1707-05	WIRING HARNESS	YM	
WH9		*	E35-1708-05	WIRING HARNESS	YM	
Δ F1		*	F50-0101-05	FUSE(5X20)	TEQ	
Δ F1		*	F50-0102-05	FUSE(5X20)	YMX	
Δ F1		*	F50-0112-05	FUSE(5X20)	V	
Δ F2		*	F50-0102-05	FUSE(5X20)	YM	
Δ F3		*	F50-0100-05	FUSE(5X20)	EQ	
CN2, 3			J13-0075-05	FUSE CLIP	Q	
CN2, 3			J13-0075-05	FUSE CLIP	Y	YMXVTE
CN6, 7			J13-0075-05	FUSE CLIP	YM	
CN8, 9			J13-0075-05	FUSE CLIP	EQ	
L11 - 13			L92-0044-05	FERRITE CORE	56	
L101			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TEQ	
L102			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TEQ	
Δ T1			L07-2128-05	POWER TRANSFORMER	YM	
Δ T1			L07-2129-05	POWER TRANSFORMER	VXTEQ	
X1			L77-2206-05	CRYSTAL RESONATOR(4.332MHZ)	TEQ	

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
Δ K1			S76-0044-05	MAGNETIC RELAY	Q	
Δ K1			S76-0044-05	MAGNETIC RELAY	Y	YMXVTE
Δ K2			S76-0056-05	MAGNETIC RELAY	56	
Δ S1			S68-0056-05	PUSH SWITCH	Y	YMXVTEQ
Δ S2			S31-3010-05	SLIDE SWITCH	YM	
D1 - 4			S5688B	DIODE	Q	
D1 - 4			S5688B	DIODE	Y	YMXVTE
D1 - 4			1SR139-400	DIODE	Q	
D1 - 4			1SR139-400	DIODE	Y	YMXVTE
D5			MTZJ6.2(B)	ZENER DIODE	Q	
D5			MTZJ6.2(B)	ZENER DIODE	Y	YMXVTE
D6, 7			1SS131	DIODE	Q	
D6, 7			1SS131	DIODE	Y	YMXVTE
Δ D8			MTZJ2.7(B)	ZENER DIODE	Q	
Δ D8			MTZJ2.7(B)	ZENER DIODE	Y	YMXVTE
D10			1SS133	DIODE	Q	
D10			1SS133	DIODE	Y	YMXVTE
D13			MTZJ4.7(B)	ZENER DIODE	56	
D14			1SS133	DIODE	56	
D21			1SS133	DIODE	56	
D31 - 34			1SS133	DIODE	56	
IC1			TC9215AP	ANALOGUE IC	56	
IC2			M62429P	ANALOGUE IC	56	
IC3, 4			NJM4565L-D	ANALOGUE IC	56	
IC5			SAA6579	ANALOGUE IC	TEQ	
Δ Q1			2SC3940A(R,S)	TRANSISTOR	Q	
Δ Q1			2SC3940A(R,S)	TRANSISTOR	Y	YMXVTE
Q2			2SC2003(L,K)	TRANSISTOR	Q	
Q2			2SC2003(L,K)	TRANSISTOR	Y	YMXVTE
Q3			2SC2878(B)	TRANSISTOR	56	
Q4			DTC124ESA	DIGITAL TRANSISTOR	56	
Q5			2SA933AS(Q,R)	TRANSISTOR	56	

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## PARTS LIST

106VR/107VR/KR-797/897/V6090/V7090



## SPECIFICATIONS

**KR-797 (for U.S.A. and Canada)**

△ **Caution** : Read this page carefully to ensure safe operation.

**Audio section**

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

110 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

110 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

110 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion ..... 0.3 % (1 kHz, 55 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB

LINE (CD) ..... 93 dB

Input sensitivity / impedance

PHONO (MM) ..... 3.0 mV / 47 kΩ

CD ..... 220 mV / 47 kΩ

Tone controls

BASS ..... ± 8 dB (at 100 Hz)

MIDDLE ..... ± 8 dB (at 900 Hz)

TREBLE ..... ± 8 dB (at 10 kHz)

N.B. circuit ..... + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout ..... 2.0 V / 600 Ω

**FM Tuner section**

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity

MONO ..... 1.3 μV (at 75 Ω) / 13.2 dBf  
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO ..... 31.6 μV (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.5 % (65 dBf input)

STEREO ..... 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO ..... 75 dB (65 dBf input)

STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 40 dB

Selectivity (IHF ±400 kHz) ..... 66 dB

Frequency response ..... 30 Hz ~15 kHz, + 0.5 dB, - 3.0 dB

**AM Tuner section**

Tuning frequency range ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) ..... 48 dB

**General**

Power consumption ..... 2.8 A

△ AC outlet

SWITCHED ..... 1: (300 W, 2.5 A max.)

Dimensions ..... W:440 mm (17-5/16")

H:127 mm (5")

D:389 mm (15-5/16")

Weight (net) ..... 9.0 kg (19.9 lb)

## SPECIFICATIONS

## KR-897 (for U.S.A. and Canada)

⚠ Caution: Read this page carefully to ensure safe operation.

## Audio section

## Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

## Power output at the SURROUND operation

## Front

120 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

## Total harmonic distortion

..... 0.3 % (1 kHz, 55 W, 8 Ω)

## Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB

LINE (CD) ..... 93 dB

## Input sensitivity / Impedance

PHONO (MM) ..... 3.0 mV / 47 kΩ

CD ..... 220 mV / 47 kΩ

## Tone controls

BASS ..... ± 8 dB (at 100 Hz)

MIDDLE ..... ± 8 dB (at 900 Hz)

TREBLE ..... ± 8 dB (at 10 kHz)

N.B. circuit ..... + 5 dB (80 Hz)

## Output level / impedance

Sub woofer preout ..... 2.0 V / 600 Ω

## FM Tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

## Usable sensitivity

MONO ..... 1.3 μV (at 75 Ω) / 13.2 dBf  
(75 kHz dev., SINAD 30 dB)

## 50 dB quieting sensitivity

STEREO ..... 31.6 μV (at 75 Ω) / 41.2 dBf

## Total harmonic distortion (1 kHz)

MONO ..... 0.5 % (65 dBf input)

STEREO ..... 0.6 % (65 dBf input)

## Signal to noise ratio (1 kHz 75 kHz dev.)

MONO ..... 75 dB (65 dBf input)

STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 40 dB

Selectivity (IHF ±400 kHz) ..... 66 dB

Frequency response ..... 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

## AM Tuner section

Tuning frequency range ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) ..... 48 dB

## General

Power consumption ..... 160 W

## △ AC outlet

SWITCHED ..... 1: (300 W, 2.5 A max.)

Dimensions ..... W:440 mm (17-5/16")

H:127 mm (5")

D:389 mm (15-5/16")

Weight (net) ..... 9.0 kg (19.9 lb)

106VR/107VR/KR-797/897/V6090/V7090  
SPECIFICATIONS

## KR-V6090

⚠ Caution: Read this page carefully to ensure safe operation.

## Audio section

## Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

1 kHz, 10 % THD at 8 Ω ..... 120 W + 120 W

(DIN/IEC) from 63 Hz to 12,500 Hz,

0.7 % T.H.D., at 8 Ω ..... 100 W + 100 W

## Power output at the Surround operation

Front (1 kHz, 0.7 % T.H.D. at 8 Ω) ..... 100 W + 100 W

Center (1 kHz, 0.7 % T.H.D. at 8 Ω) ..... 100 W

Surround (1 kHz, 0.7 % T.H.D. at 8 Ω) ..... 100 W

Front (1 kHz, 10 % T.H.D. at 8 Ω) ..... 120 W + 120 W

Center (1 kHz, 10 % T.H.D. at 8 Ω) ..... 120 W

Surround (1 kHz, 10 % T.H.D. at 8 Ω) ..... 120 W

Total harmonic distortion (1 kHz, 8 Ω) ..... 0.3 % (at 50 W)

## Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB

LINE (CD) ..... 93 dB

## Input sensitivity / impedance

PHONO (MM) ..... 3.0 mV / 47 kΩ

CD ..... 220 mV / 47 kΩ

## Tone controls

BASS ..... ± 8 dB (at 100 Hz)

MIDDLE ..... ± 8 dB (at 900 Hz)

TREBLE ..... ± 8 dB (at 10 kHz)

N.B. circuit ..... + 5 dB (80 Hz)

## Output level / impedance

Sub woofer preout ..... 2.0 V / 600 Ω

## Video section

VIDEO inputs / outputs (Composite) ..... 1 Vp-p / 75 Ω

## FM Tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

## Usable sensitivity

MONO ..... 2.0 μV (at 75 Ω) / 17.2 dBf  
(75 kHz dev., SINAD 30 dB)

## 50 dB quieting sensitivity

STEREO ..... 35 μV (at 75 Ω) / 42.2 dBf

## Total harmonic distortion (1 kHz)

MONO ..... 0.7 % (65 dBf input)

STEREO ..... 0.8 % (65 dBf input)

## Signal to noise ratio (1 kHz 75 kHz dev.)

MONO ..... 73 dB (65 dBf input)

STEREO ..... 66 dB (65 dBf input)

Selectivity (IHF ±400 kHz) ..... 50 dB

Stereo separation (1 kHz) ..... 40 dB

Frequency response ..... 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

## AM Tuner section

## Tuning frequency range

9 kHz ..... 531 kHz ~ 1,602 kHz

10 kHz ..... 530 kHz ~ 1,610 kHz

## Usable sensitivity (30 % mod., S/N 20 dB)

..... 13 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) ..... 50 dB

## General

Power consumption ..... 250 W

## △ AC outlet

SWITCHED ..... 1: (50 W max.)

Dimensions ..... W:440 mm

H:127 mm

D:389 mm

Weight (net) ..... 9.0 kg

## SPECIFICATIONS

## KR-V7090

⚠ Caution : Read this page carefully to ensure safe operation.

## Audio section

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

1 kHz, 10 % THD at 8 Ω ..... 130 W + 130 W  
(DIN/IEC) from 63 Hz to 12,500 Hz,  
0.7 % T.H.D., at 8 Ω ..... 110 W + 110 W

Power output at the Surround operation

Front (1 kHz, 0.7 % T.H.D. at 8 Ω) ..... 110 W + 110 W  
Center (1 kHz, 0.7 % T.H.D. at 8 Ω) ..... 110 W  
Surround (1 kHz, 0.7 % T.H.D. at 8 Ω) ..... 110 W

Front (1 kHz, 10 % T.H.D. at 8 Ω) ..... 130 W + 130 W  
Center (1 kHz, 10 % T.H.D. at 8 Ω) ..... 130 W  
Surround (1 kHz, 10 % T.H.D. at 8 Ω) ..... 130 W

Total harmonic distortion (1 kHz, 8 Ω) ..... 0.3 % at 55 W

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB  
CD ..... 93 dB

Input sensitivity / impedance

PHONO (MM) ..... 3.0 mV / 47 kΩ  
CD ..... 220 mV / 47 kΩ

Output level / impedance

Sub woofer preout ..... 1.0 V / 2.2 kΩ

Tone controls

BASS ..... ± 8 dB (at 100 Hz)  
MIDDLE ..... ± 8 dB (at 900 Hz)  
TREBLE ..... ± 8 dB (at 10 kHz)  
N.B. circuit ..... + 5 dB (80 Hz)

## Video section

VIDEO inputs / outputs (Composite) ..... 1 Vp-p / 75 Ω

## FM Tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity

MONO ..... 2.0 μV (at 75 Ω) / 17.2 dBf  
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO ..... 35 μV (at 75 Ω) / 42.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.7 % (65 dBf input)  
STEREO ..... 0.8 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO ..... 73 dB (65 dBf input)  
STEREO ..... 66 dB (65 dBf input)

Stereo separation (1 kHz)

..... 40 dB

Selectivity (IHF ±400 kHz)

..... 50 dB

Frequency response ..... 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

## AM Tuner section

Tuning frequency range

9 kHz ..... 531 kHz ~ 1,602 kHz

10 kHz ..... 530 kHz ~ 1,610 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 13 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) ..... 50 dB

## General

Power consumption ..... 250 W

⚠ AC outlet

SWITCHED ..... 1: (50 W max.)

Dimensions ..... W: 440 mm

H: 127 mm

D: 389 mm

Weight (net) ..... 9.0 kg

## SPECIFICATIONS

## 106VR (for U.S.A. and Canada)

⚠ Caution : Read this page carefully to ensure safe operation.

## Audio section

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

110 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

110 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

110 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion ..... 0.3 % (1 kHz, 55 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB  
LINE (CD) ..... 93 dB

Input sensitivity / impedance

PHONO (MM) ..... 3.0 mV / 47 kΩ  
CD ..... 220 mV / 47 kΩ

Tone controls

BASS ..... ± 8 dB (at 100 Hz)  
MIDDLE ..... ± 8 dB (at 900 Hz)

TREBLE ..... ± 8 dB (at 10 kHz)

N.B. circuit ..... + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout ..... 2.0 V / 600 Ω

## Video section

VIDEO inputs / outputs (Composite) ..... 1 Vp-p / 75 Ω

## FM Tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity

MONO ..... 1.3 μV (at 75 Ω) / 13.2 dBf  
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO ..... 31.6 μV (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.5 % (65 dBf input)  
STEREO ..... 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO ..... 75 dB (65 dBf input)  
STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz)

..... 40 dB

Selectivity (IHF ±400 kHz)

..... 66 dB

Frequency response ..... 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

## AM Tuner section

Tuning frequency range ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) ..... 48 dB

## General

Power consumption ..... 2.8 A

⚠ AC outlet

SWITCHED ..... 1: (50 W, 0.42 A max.)

Dimensions ..... W: 440 mm (17-5/16")

H: 127 mm (5")

D: 389 mm (15-5/16")

Weight (net) ..... 9.0 kg (19.9 lb)

106VR/107VR/KR-797/897/V6090/V7090

## SPECIFICATIONS

### 107VR (for U.S.A. and Canada)

△ **Caution** : Read this page carefully to ensure safe operation.

#### Audio section

Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

120 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

120 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

120 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion ..... 0.3 % (1 kHz, 60 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB

LINE (CD) ..... 93 dB

Input sensitivity / impedance

PHONO (MM) ..... 3.0 mV / 47 kΩ

CD ..... 220 mV / 47 kΩ

Tone controls

BASS ..... ± 8 dB (at 100 Hz)

MIDDLE ..... ± 8 dB (at 900 Hz)

TREBLE ..... ± 8 dB (at 10 kHz)

N.B. circuit ..... + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout ..... 1.0 V / 2.2 kΩ

#### Video section

VIDEO inputs / outputs (Composite) ..... 1 Vp-p / 75 Ω

Note :

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

#### KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

#### KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

#### KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic of Panama

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB, United Kingdom

#### KENWOOD ELECTRONICS BENELUX N.V.

Meachelsdierweg 418, B-1830 Zaventem, Belgium

#### KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

#### KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

#### FM Tuner section

Tuning frequency range ..... 87.5 MHz - 108 MHz

Usable sensitivity

MONO ..... 1.3 μV (at 75 Ω) / 13.2 dBf  
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO ..... 31.6 μV (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.5 % (65 dBf input)

STEREO ..... 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO ..... 75 dB (65 dBf input)

STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 40 dB

Selectivity (IHF ±400 kHz) ..... 66 dB

Frequency response ..... 30 Hz - 15 kHz, + 0.5 dB, - 3.0 dB

#### AM Tuner section

Tuning frequency range ..... 530 kHz - 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) ..... 48 dB

#### General

Power consumption ..... 2.8 A

△ AC outlet

SWITCHED ..... 1: (50 W, 0.42 A max.)

Dimensions ..... W: 440 mm (17-5/16")

H: 127 mm (5")

D: 389 mm (15-5/16")

Weight (net) ..... 9.0 kg (19.9 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

#### KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

#### KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

#### KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001499 074)

P.O. Box 504, 8 Figgie Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

#### KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

#### KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

#### KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Gentling Lane #02-02, KENWOOD Building, Singapore, 349544

#### KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia